



# **STIC Search Report**

## **EIC 1700**

**STIC Database Tracking Number: 101047**

**TO: Eisa Elhilo**  
**Location: CP3 9D34**  
**Art Unit : 1751**  
**August 13, 2003**

**Case Serial Number: 10/052733**

**From: Kathleen Fuller**  
**Location: EIC 1700**  
**CP3/4 3D62**  
**Phone: 308-4290**

**Kathleen.Fuller@uspto.gov**

### **Search Notes**



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Kathleen Fuller, EIC 1700 Team Leader  
308-4290, CP3/4-3D62

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1713

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: EISA IZHIL Examiner #: 78424 Date: 8/8/03  
 Art Unit: 1751 Phone Number 30 50217 Serial Number: 10/052733  
 Mail Box and Bldg/Room Location: CP3/9D34 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Primary intermediate for oxidative coloration of hair  
 Inventors (please provide full names): Mu-III Lin et al.

Earliest Priority Filing Date: 1/28/2001

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please do search on the formula that  
 used for dyeing hair.

Thank you.

Examine results  
 8/8/03

BEST AVAILABLE COPY

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>K. Fuller</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>4</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/13/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>20</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>45</u>	Other _____	Other (specify) _____

2 full searches

=> FILE REG

FILE 'REGISTRY' ENTERED AT 15:38:18 ON 13 AUG 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 AUG 2003 HIGHEST RN 565411-31-6

DICTIONARY FILE UPDATES: 12 AUG 2003 HIGHEST RN 565411-31-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

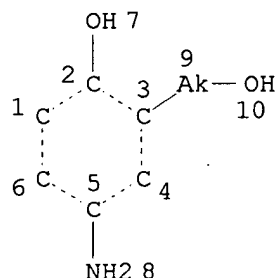
=> D QUE L50

L32

SCR 1701

L47

STR



*8 structures from the query  
which covers the structure  
in claim 2*

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L50 8 SEA FILE=REGISTRY SSS FUL L47 AND L32

=> D L50 1-8

L50 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 220264-60-8 REGISTRY

CN 1,2-Ethanediol, 1-(5-amino-2-hydroxyphenyl)- (9CI) (CA INDEX NAME)

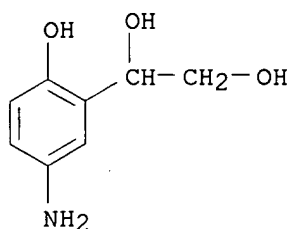
FS 3D CONCORD

MF C8 H11 N O3

*The claim 2  
structure does  
not exist.*

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

36 REFERENCES IN FILE CA (1947 TO DATE)

36 REFERENCES IN FILE CAPLUS (1947 TO DATE)

L50 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 154737-29-8 REGISTRY

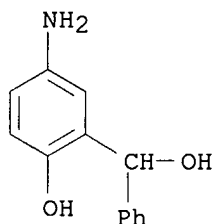
CN Benzenemethanol, 5-amino-2-hydroxy-.alpha.-phenyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H13 N O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1947 TO DATE)

1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

L50 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 132888-03-0 REGISTRY

CN Hydrobenzoin, 5,5'-diamino-2,2'-dihydroxy- (6CI) (CA INDEX NAME)

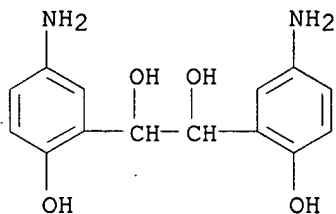
FS 3D CONCORD

MF C14 H16 N2 O4

SR CAOLD

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER

(\*File contains numerically searchable property data)



162  
165

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1947 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1947 TO DATE)  
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L50 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 104333-09-7 REGISTRY

CN Benzenemethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Saligenin, 5-amino- (6CI)

OTHER NAMES:

CN 2-(Hydroxymethyl)-4-aminophenol

CN 4-Amino-2-(hydroxymethyl)phenol

FS 3D CONCORD

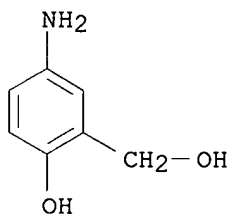
MF C7 H9 N O2

CI COM

SR CA

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)



1-C  
honor log

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

163 REFERENCES IN FILE CA (1947 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
163 REFERENCES IN FILE CAPLUS (1947 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L50 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

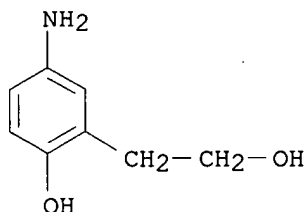
RN 104333-08-6 REGISTRY

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(.beta.-Hydroxyethyl)-4-aminophenol

CN 4-Amino-2-(2-hydroxyethyl)phenol  
FS 3D CONCORD  
MF C8 H11 N O2  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

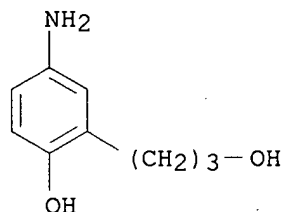


*This is the closest structure  
and it is 2-hydroxy  
not 1 hydroxy!*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

35 REFERENCES IN FILE CA (1947 TO DATE)  
35 REFERENCES IN FILE CAPLUS (1947 TO DATE)

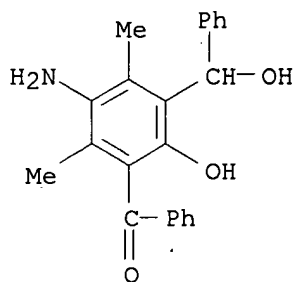
L50 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 90060-47-2 REGISTRY  
CN Benzenepropanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C9 H13 N O2  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1947 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

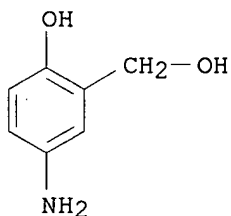
L50 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 85450-79-9 REGISTRY  
CN Methanone, [3-amino-6-hydroxy-5-(hydroxyphenylmethyl)-2,4-dimethylphenyl]phenyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C22 H21 N O3  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1947 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

L50 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 57361-57-6 REGISTRY  
CN Benzenemethanol, 5-amino-2-hydroxy-, hydrochloride (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 4-Amino-2-(hydroxymethyl)phenol hydrochloride  
CN 4-Hydroxy-3-(hydroxymethyl)aniline hydrochloride  
DR 344340-78-9  
MF C7 H9 N O2 . Cl H  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
CRN (104333-09-7)



● HCl

4 REFERENCES IN FILE CA (1947 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1947 TO DATE)

=> S 104333-08-6  
L53 1 104333-08-6  
— (104333-08-6/RN)

*2 hydroxy*

=> FILE HCAPLUS  
FILE 'HCAPLUS' ENTERED AT 15:39:21 ON 13 AUG 2003  
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COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)



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FILE COVERS 1907 - 13 Aug 2003 VOL 139 ISS 7  
FILE LAST UPDATED: 12 Aug 2003 (20030812/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L53

L54 35 L53

=> S L54(L) (HAIR OR KERAT?)

48091 HAIR

36167 KERAT?

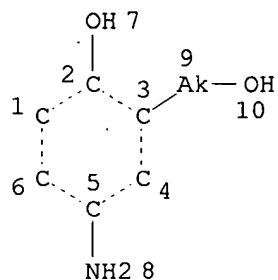
L55 32 L54(L) (HAIR OR KERAT?)

=> D QUE

L32 SCR 1701

L47 STR

*32 CA references for  
2-Hydroxy*



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L50 8 SEA FILE=REGISTRY SSS FUL L47 AND L32

L51 209 SEA FILE=HCAPLUS ABB=ON L50

L53 1 SEA FILE=REGISTRY ABB=ON 104333-08-6

L54 35 SEA FILE=HCAPLUS ABB=ON L53

L55 32 SEA FILE=HCAPLUS ABB=ON L54(L) (HAIR OR KERAT?)

L57 189 SEA FILE=HCAPLUS ABB=ON L51(L) (HAIR OR KERAT?)

L58 11 SEA FILE=HCAPLUS ABB=ON L51(L) (PREP OR IMF OR SPN)/RL

KATHLEEN FULLER EIC 1700/PARKER LAW 308-4290

L59 2 SEA FILE=HCAPLUS ABB=ON L57 AND L58  
 L60 33 SEA FILE=HCAPLUS ABB=ON L55 OR L59

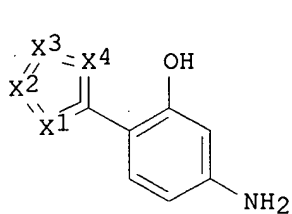
*other structures & utility*

=> D L60 BIB ABS HITIND HITSTR 1-33

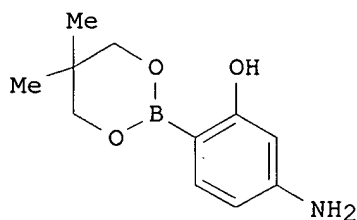
*38 CA references with utility*

L60 ANSWER 1 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2003:170369 HCAPLUS  
 DN 138:206431  
 TI Preparation of 3-aminophenols as oxidative dyeing agents of human hair  
 IN Pasquier, Cecile; Wyss, Patrick; Braun, Hans-Juergen  
 PA Wella AG, Germany  
 SO Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

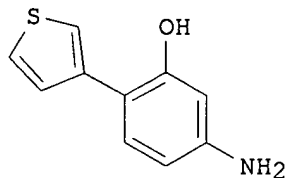
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10141723	A1	20030306	DE 2001-10141723	20010825
	WO 2003018571	A1	20030306	WO 2002-EP4495	20020424
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	DE 2001-10141723	A	20010825		
OS	MARPAT 138:206431				
GI					



I



II



III

*NPA*

AB Title compds. I [X1, X2, X3 = S, N, O, etc., with provisos] were prepd. For example, aryl coupling of dioxaborinane II, e.g., prepd. from 3-aminophenol in 4-steps, and 3-bromothiophene, followed by HCL mediated phenol deprotection afforded diaminobenzene III hydrochloride in 23% yield. In coloration studies of bleached hair, 9-examples of compds. I in combination with 4-dyeing developers resulted in a range of hair coloring, e.g., a prepn. of diaminobenzene III hydrochloride and 2,5-diaminotoluene sulfate produced a violet color.

IC ICM C07D333-06  
ICS C07D333-20; C07D307-52; C07D277-04; A61K007-13

CC 40-6 (Textiles and Fibers)  
Section cross-reference(s): 25, 41

IT 83-56-7, 1,5-Naphthalenediol 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-57-6, 5-Aminosalicylic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolindione 91-68-9, 3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-Dimethylaminophenol 99-98-9, 4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, reactions 108-45-2, 1,3-Diaminobenzene, reactions 108-46-3, 1,3-Dihydroxybenzene, reactions 123-30-8, 4-Aminophenol 137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6, 2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3, 3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2, 1,7-Naphthalenediol 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-50-9, 615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2, 3-[(2-Hydroxyethyl)amino]phenol 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9, 2-Methyl-1-naphtholacetate 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6358-09-4, 2-Amino-6-chloro-4-nitrophenol 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7228-00-4, 2-[(3-Hydroxyphenyl)amino]acetamide 7469-77-4, 2-Methyl-1-naphthol 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 14268-66-7, 3,4-Methylenedioxyaniline 16867-03-1, 2-Amino-3-hydroxypyridine 17672-22-9, 2-Amino-6-methylphenol 26011-57-4, 6-Amino-3,4-dihydro-[1,4](2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0, N-(3-Dimethylaminophenyl)urea 28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 39489-79-7, 5-Amino-2,4-dichlorophenol 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3, 3-Amino-2,4-dichlorophenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene 70643-19-5,

2,4-Diamino-1-(2-hydroxyethoxy)benzene 70643-20-8, 1,3-Diamino-4-(2-hydroxyethoxy)benzene sulfate 71077-37-7, 1,3-Diamino-4-(2-methoxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-ethoxybenzene 71500-42-0, 3-[Di(2-hydroxyethyl)amino]aniline 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 74918-21-1, 1,3-Bis(2,4-diaminophenoxy)propane tetrahydrochloride 75513-65-4, 1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2, 3-[(2-Aminoethyl)amino]aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-methylaminobenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 80592-80-9, 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0, 3-[(2-Hydroxyethyl)amino]-2-methylphenol 81329-90-0, 5-[(2-Hydroxyethyl)amino]-1,3-benzodioxol 81892-72-0, 1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-hydroxymethyl)amino]anisole 83763-48-8, 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 93841-25-9, 94082-77-6, 2,4-Diamino-1,5-di(2-hydroxyethoxy)benzene 94158-14-2, 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110102-86-8, 5-Amino-4-chloro-2-methylphenol 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8, 2,4-Di-[(2-Hydroxyethyl)amino]-1,5-dimethoxybenzene 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-Aminophenyl)amino]butane 131657-78-8, 6-Chloro-2-ethylamino-4-nitrophenol 135043-64-0, 4-Amino-2-aminomethylphenol dihydrochloride 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2, 2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethyl)aminotoluene 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazol 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazol 155601-30-2, 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazol 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazol 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168092-23-7, Di(2,4-diaminophenoxy)methane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 207923-07-7, 5-Amino-2-ethylphenol 217311-43-8, 2,4-Diamino-5-fluorotoluene sulfate 244104-61-8, 1,4-Diamino-2-(thiophen-2-yl)benzene 246244-41-7, 1,4-Diamino-2-(thiophen-3-yl)benzene 282542-32-9, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate 306959-12-6, 1,4-Diamino-2-(pyridin-3-yl)benzene 307493-94-3, 1,3-Diamino-4-(3-hydroxypropoxy)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 350482-02-9, 5-Amino-4-fluoro-2-methylphenol sulfate

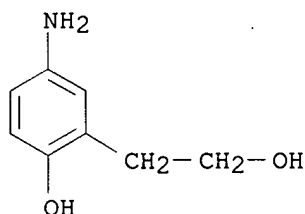
RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT  
(Reactant or reagent); USES (Uses)  
(prepn. of aminophenols as oxidative dyeing agents of human  
hair.)

IT 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT  
(Reactant or reagent); USES (Uses)  
(prepn. of aminophenols as oxidative dyeing agents of human  
hair.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 2 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:904285 HCAPLUS

DN 137:375003

TI Synthesis of 1,3-dihydroxybenzene derivatives and their use in oxidative  
hair dyes

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella Ag, Germany

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10125453	A1	20021128	DE 2001-10125453	20010525
	WO 2002096901	A2	20021205	WO 2002-EP850	20020128
	WO 2002096901	A3	20030313		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	BR 2002005398	A	20030701	BR 2002-5398	20020128
PRAI	DE 2001-10125453	A	20010525		
	DE 2001-20108704	U	20010525		
	WO 2002-EP850	W	20020128		
OS	MARPAT 137:375003				
AB	The invention concerns 1,3-dihydroxybenzene derivs., their synthesis and application as coupling agents in oxidative hair dyes. Thus				

1,3-dihydroxy-4-(thiophene-2yl)-benzene was synthesized in a three step reaction and used in a hair dye compn. as a 1.25 mmol ingredient; other components were: 1,4-diaminobenzene 1.25 mmol; potassium oleate (8% soln.) 1.0 g; ammonia (22% soln.) 1.0 g; ethanol 1.0g; ascorbic acid 0.3 g; water to 100 g.

IC ICM C07D333-06

ICS C07D333-12; C07D307-38; C07F007-08; A61K007-13; C07D207-325

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-57-6, 5-Aminosalicyclic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-Dimethylaminophenol 99-98-9, 4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, biological studies 108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3, 1,3-Dihydroxybenzene, biological studies 123-30-8, 4-Aminophenol 137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6, 2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluoro-phenol 399-96-2, 4-Amino-2-fluoro-phenol 533-31-3, 3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxy benzene 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2, 3-[(2-Hydroxyethyl)amino]phenol 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 3131-52-0, 5,6-Dihydroxyindole 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9, 2-Methyl-1-naphthol-acetate 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7228-00-4, 2-[(3-Hydroxyphenyl)amino]-acetamide 7469-77-4, 2-Methyl-1-naphthol 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 14268-66-7, 3,4-Methylenedioxyaniline 16867-03-1, 2-Amino-3-hydroxypyridine 17672-22-9, 2-Amino-6-methylphenol 26011-57-4, 6-Amino-3,4-dihydro-1,4(2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0, N-(3-Dimethylaminophenyl)urea 28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 39489-79-7, 5-Amino-2,4-dichloro-phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3, 3-Amino-2,4-dichloro-phenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7, 1,3-Diamino-4-(2-methoxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-ethoxybenzene 71500-42-0,

3-[Di(2-hydroxyethyl)amino]aniline 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 75513-65-4, 1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2, 3-[(2-Aminoethyl)amino]aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-methylaminobenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 80592-80-9, 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0, 3-[(2-Hydroxyethyl)amino]-2-methylphenol 81892-72-0, 1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-hydroxyethyl)amino]anisole 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7, 2,4-Diaminophenoxy acetic acid 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 94082-77-6, 2,4-Diamino-1,5-di(2-hydroxyethoxy)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110102-86-8, 5-Amino-4-chloro-2-methylphenol 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8, 2,4-Di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-Aminophenyl)amino]butane 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2, 2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethyl)aminotoluene 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168092-23-7, Di(2,4-diaminophenoxy)methane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 207923-07-7, 5-Amino-2-ethylphenol 244028-59-9, 5-[(2-Hydroxyethyl)amino]-1,3-benzodioxole 244104-61-8 246244-41-7 306959-12-6 307493-94-3, 1,3-Diamino-4-(3-hydroxypropoxy)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 475391-60-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of 1,3-dihydroxybenzene derivs. and their use in oxidative hair dyes)

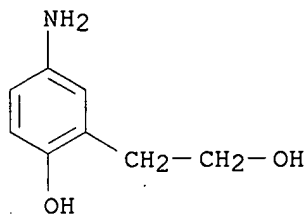
IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of 1,3-dihydroxybenzene derivs. and their use in oxidative hair dyes)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 3 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:904284 HCAPLUS

DN 137:375002

TI Synthesis of N-benzyl-m-phenylenediamine derivatives and their use in oxidative hair dyes

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella Ag, Germany

SO Ger. Offen., 18 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10125451	A1	20021128	DE 2001-10125451	20010525
	WO 2002096854	A1	20021205	WO 2002-EP1087	20020202
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	BR 2002005434	A	20030624	BR 2002-5434	20020202
PRAI	DE 2001-10125451	A	20010525		
	WO 2002-EP1087	W	20020202		

OS MARPAT 137:375002

AB The invention concerns N-benzyl-m-phenylenediamine derivs., their synthesis and application as coupling agents in oxidative hair dyes. Thus 2-[4-amino-2-benzylamino-phenoxy]-ethanol hydrochloride was synthesized in a two step reaction starting from 2-(2,4-diaminophenoxy)ethanol and di-tert.-butyldicarbonate; the product was reacted with benzaldehyde. A hair dye compn. contained: 2-[4-amino-2-benzylamino-phenoxy]-ethanol hydrochloride 1.25 mmol; 1,4-diaminobenzene 1.25 mmol; potassium oleate (8% soln.) 1.0 g; ammonia (22% soln.) 1.0 g; ethanol 1.0g; ascorbic acid 0.3 g; water to 100 g.

IC ICM C07C217-82

ICS C07C233-18; C07C215-00; C07C311-00; C07C317-00; C07C323-00; C07F007-10; A61K007-13; C07D231-38; D06P001-642

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-55-6,



2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9,  
4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3,  
1,4-Diaminobenzene, biological studies 123-30-8, 4-Aminophenol  
150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluoro-phenol  
399-96-2, 4-Amino-2-fluoro-phenol 533-73-3, 1,2,4-Benzenetriol  
615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-  
Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone  
1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6,  
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3,  
4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6,  
4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7,  
1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-  
Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene  
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4-[Di(2-hydroxyethyl)amino]aniline 17672-22-9, 2-Amino-6-methylphenol  
29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3,  
4,5-Diamino-1-methyl-1H-pyrazole 66566-48-1, 4-[(2-  
Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene  
73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 79352-72-0,  
4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-  
hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene  
**104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7,  
4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-  
Hydroxypropyl)amino]aniline 105293-89-8, 4-Dipropylaminoaniline  
109942-17-8, 2,5-Diaminobiphenyl 110952-46-0, 4-Amino-2-[(2-  
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hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-  
Aminophenyl)amino]butane 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-  
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157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole  
157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole  
159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7,  
4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-  
1,4-diaminobenzene 244104-61-8 246244-41-7 306959-12-6  
329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2,  
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475490-89-2 475490-90-5 475490-91-6 475490-92-7 475490-93-8  
475490-94-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of N-benzyl-m-phenylenediamine derivs. and their use in  
oxidative hair dyes)

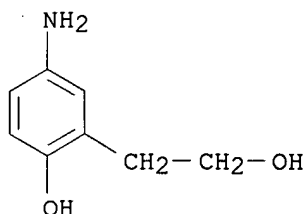
IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of N-benzyl-m-phenylenediamine derivs. and their use in  
oxidative hair dyes)

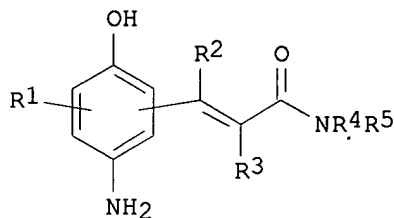
RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 4 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:777882 HCAPLUS  
 DN 137:296211  
 TI (1-Amino-4-hydroxyphenyl)acrylamide derivatives and oxidative hair dyes containing them  
 IN Chassot, Laurent; Braun, Hans-Juergen  
 PA Wella Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

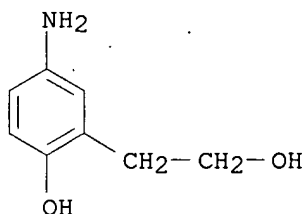
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	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10115994	A1	20021010	DE 2001-10115994	20010330
	EP 1286953	A1	20030305	EP 2001-274059	20011019
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	BR 2001011197	A	20030408	BR 2001-11197	20011019
PRAI	DE 2001-10115994	A	20010330		
	WO 2001-EP12126	W	20011019		
OS	MARPAT 137:296211				
GI					



I

- AB The invention relates to aminohydroxyphenylacrylamide derivs. (I; R1 = H, halogen, alkyl, hydroxyalkyl, alkoxy; R2, R3 = H, alkyl; R4, R5 = H, alkyl, unsatd. alkyl, hydroxyalkyl, alkoxy, optionally substituted aminoalkyl, cyanoalkyl, carboxyalkyl, aminocarbonylalkyl, arom. group, heterocyclic group) or physiol. acceptable, water-sol. salts of I, and to oxidative hair dyes contg. I as developers. I provide hair dyes with very good fastness to light and washing. Examples were given in which 3-(5-amino-2-hydroxyphenyl)acrylamide derivs. were prepd. from 3-[5-(tert-butoxycarbonylamino)-2-(ethoxymethoxy)phenyl]acrylic acid and the appropriate amines or amine derivs.
- IC ICM C07C237-20  
ICS A61K007-13; D06P001-32; C07D295-18; C07D295-12; C07D231-38; C07D307-52; C07D211-46; C07D207-27; C07D213-75; C07D233-61; C07D307-22; C07D317-66; C07D207-08; C07D207-16; C07D211-42
- CC 41-8 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)  
Section cross-reference(s): 25, 27, 28, 62
- IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[N-Ethyl-N-(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-Anilinoaniline 106-50-3, 1,4-Diaminobenzene, uses 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Bis(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 73793-80-3, 1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0, 4-Amino-2-(2-hydroxyethylaminomethyl)phenol 126335-43-1, 1,4-Diamino-2-(hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[N-(4-aminophenyl)-N-(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis(4-aminophenylamino)butane 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(2-thienyl)benzene 246244-41-7, 1,4-Diamino-2-(3-thienyl)benzene 306959-12-6, 1,4-Diamino-2-(3-pyridyl)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-(methoxymethyl)benzene  
RL: TEM (Technical or engineered material use); USES (Uses)  
(in oxidative **hair** dye compns. contg.)

aminohydroxyphenylacrylamide deriv. developers)  
 IT 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in oxidative hair dye compns. contg.  
 aminohydroxyphenylacrylamide deriv. developers)  
 RN 104333-08-6 HCAPLUS  
 CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 5 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:733860 HCAPLUS  
 DN 137:252674  
 TI Synthesis of 1,3-diamino-4-(aminomethyl)-benzene derivatives and their use  
 in oxidative hair dyes  
 IN Chassot, Laurent; Braun, Hans-Juergen  
 PA Wella AG, Germany  
 SO Ger. Offen., 16 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10114084	A1	20020926	DE 2001-10114084	20010322
	WO 2002076923	A1	20021003	WO 2001-EP12124	20011019
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	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	BR 2001010957	A	20030408	BR 2001-10957	20011019
PRAI	DE 2001-10114084	A	20010322		
	WO 2001-EP12124	W	20011019		
OS	MARPAT 137:252674				
AB	The invention concerns the synthesis of 1,3-diamino-4-(aminomethyl)-benzene derivatives and their use as coupling agents in oxidative hair dyes. The hair preps. further contain developers, other coupling agents and direct dyes. Thus 1,3-diamino-4-(methylaminomethyl)-benzene hydrochloride was synthesized and used as a 1.25 mmol coupler ingredient in a hair dye that contained 1.25 mmol 1,4-diamino benzene as developer. Further ingredients were (g); potassium oleate ( 8% aq. soln.) 1.0; ammonia (22%				

aq. soln.) 1.0; ethanol 1.0; ascorbic acid 0.3; water to 100.

IC ICM C07C211-51  
ICS C07C215-08; C07C217-00; C07C211-52; C07C211-53; D06P001-32;  
D06P001-645; A61K007-13; C07D207-04; C07D211-06; C07D295-03;  
C07D213-04

CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 25

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-  
pyrazolone 89-57-6, 5-Aminosalicyclic acid 89-83-8,  
5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5,  
2,3-Indolinedione 91-68-9, 3-Diethylaminophenol 92-44-4,  
2,3-Dihydroxynaphthalene 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline  
93-05-0, 4-Diethylaminoaniline 95-55-6, 2-Aminophenol 95-70-5,  
1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene  
99-07-0, 3-Dimethylaminophenol 99-98-9, 4-Dimethylaminoaniline  
101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, biological  
studies 108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3,  
1,3-Dihydroxybenzene, biological studies 123-30-8, 4-Aminophenol  
137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6,  
2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1,  
4-Amino-3-fluoro-phenol 399-96-2, 4-Amino-2-fluoro-phenol 533-31-3,  
3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2,  
1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5,  
3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-66-7,  
2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid 620-17-7  
770-25-2, 3-[(2-Hydroxyethyl)amino]phenol 1004-74-6,  
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1630-11-1, 1,4-Diamino-3,5-diethylbenzene 1687-53-2,  
5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6,  
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2380-84-9, 7-Hydroxyindole  
2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2,  
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5,6-Dihydroxyindole 4318-76-7, 2,5-Diaminopyridine 5306-96-7,  
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1,4-Diamino-2,6-dimethylbenzene 7228-00-4, 2-[(3-  
Hydroxyphenyl)amino]acetamide 7469-77-4, 2-Methyl-1-naphthol  
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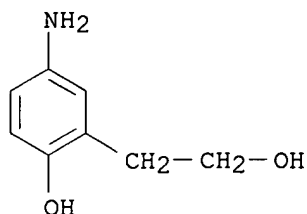
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8/13/03

Page 19

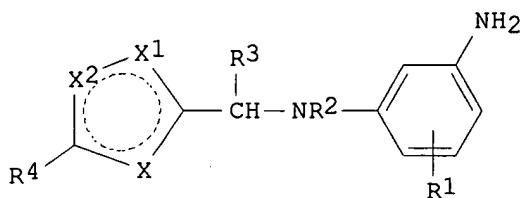
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4-Amino-2-(aminomethyl)phenol 80592-81-0, 3-[(2-Hydroxyethyl)amino]-2-methylphenol  
2-methylphenol 80592-81-0, 3-[(2-Hydroxyethyl)amino]-2-methylphenol 83763-47-7,  
81892-72-0, 1,3-Di(2,4-diaminophenoxy)propane 84540-47-6,  
2-Amino-4-[(2-hydroxyethyl)amino]aniline 84540-48-7, 2,4-Diaminophenoxy acetic  
2,6-Dihydroxy-3,4-dimethylpyridine 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3,  
acid 84540-50-1, 3-Amino-2-chloro-6-methylphenol 86817-42-7, 2-(4-Amino-2-  
hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-  
(methylamino)pyridine 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8,  
1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6,  
4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-  
(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 104752-51-4,  
1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 105293-89-8,  
4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110102-86-8,  
5-Amino-4-chloro-2-methylphenol 111451-24-2, 2,6-Diamino-3,5-  
dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene  
122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8,  
2,4-Di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 126335-43-1,  
aminophenyl(2-hydroxyethyl)amino]-2-propanol 130582-53-5,  
1,4-Bis[(4-aminophenyl)amino]butane 137290-78-9, 5-Amino-4-methoxy-2-  
methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-  
methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2,  
methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-05-3, 2,4-Diamino-1-(2-  
2,4-Diamino-1-ethoxy-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-  
hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-  
methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 149330-25-6,  
146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 155601-16-4, 4,5-Diamino-1-(1-  
2,6-Bis(2-hydroxyethyl)aminotoluene 155601-16-4, 4,5-Diamino-1-(2-hydroxyethyl)-1H-  
methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole  
pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole  
157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 168092-23-7,  
159661-45-7, 1,8-Bis(2,5-diaminophenoxy)methane 168202-61-7, 4-Amino-3-  
Di(2,4-diaminophenoxy)methane 168202-61-7, 4-Amino-3-  
(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-  
diaminobenzene 207923-07-7, 5-Amino-2-ethylphenol 244028-59-9,  
5-[(2-Hydroxyethyl)amino]-1,3-benzodioxole 244104-61-8 246244-41-7  
306959-12-6 307493-94-3, 1,3-Diamino-4-(3-hydroxypropoxy)benzene  
329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2,  
1,4-Diamino-2-methoxymethylbenzene  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(synthesis of 1,3-diamino-4-(aminomethyl)-benzene derivatives and use in  
oxidative hair dyes)

IT 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(synthesis of 1,3-diamino-4-(aminomethyl)-benzene derivatives and use in  
oxidative hair dyes)  
RN 104333-08-6 HCAPLUS  
CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 6 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:716265 HCAPLUS  
 DN 137:249072  
 TI Manufacture of N-(heteroarylmethyl)-m-phenylenediamine  
 derivative-containing dyes for keratin fibers  
 IN Chassot, Laurent; Braun, Hans-Juergen  
 PA Wella Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002072568	A1	20020919	WO 2001-EP12053	20011018
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				
	US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10111936	C1	20021002	DE 2001-10111936	20010313
	EP 1280791	A1	20030205	EP 2001-273957	20011018
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001010490	A	20030408	BR 2001-10490	20011018
PRAI	DE 2001-10111936	A	20010313		
	WO 2001-EP12053	W	20011018		
OS	MARPAT 137:249072				
GI					



I

AB A dye developer-coupler combination useful for oxidative dyeing of keratin

fibers, esp. human hair, comprises N-(heteroaryl-methyl)-m-phenylenediamine derivs. [I; R1 = H, C1-4 (hydroxy)alkyl, C1-4 hydroxyalkoxy; R2, R3 = H, C1-6 alkyl; R4 = H, halo, cyano, C1-6 alkyl, C1-4 alkoxy, NO2, amino, etc.; X = S, N, O, CR6, NR5; X1 = S, N, O, CR7, NR5; X2 = S, N, O, CR8, NR5; R5 = H, C1-6 alkyl, Ph, etc.; R6-R8 = any of definitions for R4 (with a proviso)] or their salts as couplers. For example, stirring 1,3-phenylenediamine with (Me3CCO)2O in CH2Cl2 in the presence of NaOH gave 30% tert-Bu (3-aminophenyl)carbamate. Stirring the latter with thiophene-2-carbaldehyde in MeOH in the presence of mol. sieve and treating the reaction mixt. at 0.degree. with BH3.cntdot.THF complex gave a dye coupler N-(thiophen-3-ylmethyl)-1,3-diaminobenzene.cntdot.HCl which, in combination with 1,4-diaminobenzene developer and H2O2 oxidn. agent, dyed human hair dark blue.

IC ICM C07D333-20

ICS C07D307-52; C07D233-54; C07D277-28; A61K007-13

CC 41-5 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 27, 62

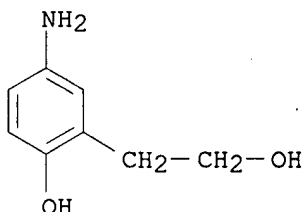
IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9, 4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, uses 123-30-8, 4-Aminophenol 150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidine 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-Aminophenyl)amino]butane 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-(2-(Acetyl-amino)ethoxy)-1,4-diaminobenzene 244104-61-8 246244-41-7 306959-12-6, 1,4-Diamino-2-(pyridin-3-yl)benzene 329320-36-7, 1-(2,5-Diamino-phenyl)ethanol 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene

RL: TEM (Technical or engineered material use); USES (Uses)

(dye developer; manuf. of N-(heteroaryl-methyl)-m-phenylenediamine



deriv.-contg. dyes for **keratin** fibers)  
 IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye developer; manuf. of N-(heteroaryl-methyl)-m-phenylenediamine  
 deriv.-contg. dyes for **keratin** fibers)  
 RN 104333-08-6 HCAPLUS  
 CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 7 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:714095 HCAPLUS  
 DN 137:252662  
 TI Oxidative hair dyes containing aldehydes in the dye solution for improving color intensity  
 PA Wella Ag, Germany  
 SO Ger. Gebrauchsmusterschrift, 36 pp.  
 CODEN: GGXXFR  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20206612	U1	20020919	DE 2002-20206612	20020426
PRAI	DE 2002-20206612		20020426		
OS	MARPAT 137:252662				

AB The invention concerns oxidative hair dyes that are mixed before application with a hydrogen peroxide soln. that contains an aldehyde, linear or arom.; the obtained dye soln. excels improved color intensity. Thus a dye mixt. was prepd. that contained 0.01 mmol 1,4-diamino-2-methylbenzene, 0.01 mmol resorcin and the components (g): EDTA disodium salt 0.3; ascorbic acid 0.3; lauryl ether sulfate 2.8; ethanol (96%) 8.0; ammonia (25 % aq. soln.) 9.0; water to 100. To 20 g of the dye mixt. was mixed with 20 g of 6% hydrogen peroxide in 1% aq. glutaraldehyde. The mixt. was applied to bleached hair for 10 min at 40.degree.C.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 66-25-1, Hexanal 75-07-0, Acetaldehyde, biological studies 78-84-2, Isobutyraldehyde 80-54-6, p-tert-Butyl-.alpha.-methylhydrocinnamic aldehyde 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-57-6, 5-Aminosalicylic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 96-17-3, 2-Methylbutyraldehyde

97-96-1, 2-Ethylbutyraldehyde 99-07-0, 3-Dimethylaminophenol 99-98-9,  
4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 101-86-0,  
2-(Phenylmethylene)octanal 103-95-7 106-23-0, 3,7-Dimethyl-6-octenal  
106-50-3, 1,4-Diaminobenzene, biological studies 107-75-5,  
3,7-Dimethyl-7-hydroxyoctanal 108-45-2, 1,3-Diaminobenzene, biological  
studies 110-62-3, Pentanal 111-30-8, Glutaraldehyde 111-71-7,  
Heptanal 116-26-7, 2,6,6-Trimethyl-1,3-cyclohexadiene-1-carboxaldehyde  
120-57-0, Heliotropin 122-40-7, 2-(Phenylmethylene)heptanal 122-78-1,  
Phenylethanal 123-05-7, 2-Ethylhexanal 123-15-9, 2-Methylpentanal  
123-30-8, 4-Aminophenol 123-38-6, Propionaldehyde, biological studies  
123-72-8, Butanal 124-13-0, Octanal 137-19-9, 1,5-Dichloro-2,4-  
dihydroxybenzene 141-27-5, trans-3,7-Dimethyl-2,6-octadienal 141-86-6,  
2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1,  
4-Amino-3-fluoro-phenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3,  
3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 542-78-9,  
Malondialdehyde 557-48-2, (E,Z)-2,6-Nonadienal 575-38-2,  
1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 590-86-3,  
Isopentanal 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-  
methylbenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6,  
3,4-Diaminobenzoic acid 770-25-2, 3-[(2-Hydroxyethyl)amino]phenol  
1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-  
pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 1687-53-2,  
5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2043-61-0,  
Cyclohexanal 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline  
2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1,  
4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 2835-96-3,  
4-Amino-2-methylphenol 2835-99-6, 4-Amino-3-methylphenol 2987-16-8,  
3,3-Dimethylbutyraldehyde 3131-52-0, 5,6-Dihydroxyindole 4221-03-8,  
5-Hydroxypentanal 4318-76-7, 2,5-Diaminopyridine 5306-96-7,  
1,4-Diamino-2,3-dimethylbenzene 5349-76-8, 2,4-Diamino-1-methoxy-5-  
methylbenzene 5435-64-3, 3,5,5-Trimethylhexanal 5697-02-9,  
2-Methyl-1-naphthol-acetate 5862-80-6, 4-[(2,3-  
Dihydroxypropyl)amino]aniline 6265-21-0, 3-[(2-  
Hydroxyethyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene  
6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7218-02-2,  
1,4-Diamino-2,6-dimethylbenzene 7228-00-4, 2-[(3-  
Hydroxyphenyl)amino]acetamide 7469-77-4, 2-Methyl-1-naphthol  
7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 7722-84-1, Hydrogen  
peroxide, biological studies 14268-66-7, 3,4-Methylenedioxyaniline  
16251-77-7, 3-Phenylbutyraldehyde 16867-03-1, 2-Amino-3-hydroxypyridine  
26011-57-4, 6-Amino-3,4-dihydro[1,4](2H)-benzoxazine 26021-57-8,  
3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0,  
N-(3-Dimethylaminophenyl)-urea 28020-38-4, 2,3-Diamino-6-methoxypyridine  
29539-03-5, 5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-  
(methoxymethyl)phenol 30897-75-7, Pinoacetaldehyde 36207-16-6  
39489-79-7, 5-Amino-2,4-dichloro-phenol 45514-38-3, 4,5-Diamino-1-methyl-  
1H-pyrazole 53222-92-7, 3-Amino-2-methylphenol 53687-29-9  
55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3,  
3-Amino-2,4-dichloro-phenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline  
67199-87-5, 1,4-Diamino-2-aminomethylbenzene 68039-49-6,  
2,4-Dimethyl-3-cyclohexene-carboxaldehyde 70643-19-5,  
2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7, 1,3-Diamino-4-(2-  
methoxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-  
ethoxybenzene 71500-42-0, 3-[Di(2-hydroxyethyl)amino]aniline  
73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 75513-65-4,  
1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2,  
3-[(2-Aminoethyl)amino]aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-  
methylaminobenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol

80592-80-9, 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0,  
3-[(2-Hydroxyethyl)amino]-2-methylphenol 81892-72-0,  
1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-  
hydroxyethyl)amino]anisole 84540-47-6, 2,6-Dihydroxy-3,4-  
dimethylpyridine 84540-48-7, 2,4-Diaminophenoxy acetic acid  
84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3,  
3,5-Diamino-2,6-dimethoxypyridine 86817-42-7, 2-(4-Amino-2-  
hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-  
(methylamino)pyridine 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene  
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1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**,  
4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-  
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104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4,  
1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 105293-89-8,  
4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110102-86-8,  
5-Amino-4-chloro-2-methylphenol 110952-46-0, 4-Amino-2-[(2-  
hydroxyethyl)amino]methylphenol 111451-24-2, 2,6-Diamino-3,5-  
dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene  
122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8,  
2,4-Di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 125109-85-5,  
3-(3-Isopropylphenyl)butanal 126335-43-1, 1,4-Diamino-2-(2-  
hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-  
hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-  
aminophenyl)amino]butane 137290-78-9, 5-Amino-4-methoxy-2-methylphenol  
137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol  
139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2,  
2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-  
hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-  
methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol  
146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 149330-25-6,  
2,6-Bis(2-hydroxyethyl)aminotoluene 155601-16-4, 4,5-Diamino-1-(1-  
methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-  
pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole  
157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole  
159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168092-23-7,  
Di(2,4-diaminophenoxy)methane 168202-61-7, 4-Amino-3-(hydroxymethyl)-  
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207923-07-7, 5-Amino-2-ethylphenol 244028-59-9, 5-[(2-  
Hydroxyethyl)amino]-1,3-benzodioxole 244104-61-8 246244-41-7  
306959-12-6, 1,4-Diamino-2-(pyridin-3-yl)benzene 307493-94-3,  
1,3-Diamino-4-(3-hydroxypropoxy)benzene 329320-36-7,  
1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-  
methoxymethylbenzene 365533-47-7 460331-12-8

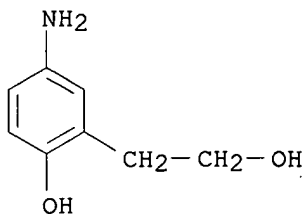
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair** dyes contg. aldehydes in dye soln. for  
improving color intensity)

IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair** dyes contg. aldehydes in dye soln. for  
improving color intensity)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 8 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:714094 HCAPLUS

DN 137:252661

TI Oxidative hair dyes containing 2,3-diaminophenol derivatives as coupling agents

PA Wella Ag, Germany

SO Ger. Gebrauchsmusterschrift, 42 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20206274	U1	20020919	DE 2002-20206274	20020420
PRAI	DE 2002-20206274		20020420		
OS	MARPAT 137:252661				

AB The invention concerns oxidative hair dyes that contain 2,3-diaminophenol derivs. as coupling agents; further the dyes contain developers and direct dyes. Thus 3-amino-2-(2-hydroxyethylamino)phenol dihydrochloride was synthesized and 1.25 mmol of the compd. was used in a hair dye compn. that further contained: 1.25 mmol 2,5-diaminotoluene sulfate; 10.0 g lauryl ether sulfate; 9.0 g ammonia (22% soln.); 7.8 g ethanol; 0.3 g ascorbic acid; 0.3 g EDTA disodium salt; water to 100 g.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-55-6 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9, 4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, biological studies 533-73-3, 1,2,4-Trihydroxybenzene 611-24-5, 2-Methylaminophenol 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidine 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-98-5, 6-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 17672-22-9, 6-Amino-2-methylphenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 53981-24-1 53981-25-2 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 87700-93-4 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-Dipropylaminoaniline

109942-17-8, 2,5-Diaminobiphenyl 114484-31-0 122196-12-7  
 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 155601-16-4,  
 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5,  
 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0,  
 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1,  
 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7,  
 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 207568-58-9,  
 2-[2-(Acetylamin)ethoxy]-1,4-diaminobenzene 244104-61-8 246244-41-7  
 306959-12-6 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene  
 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 460049-84-7  
 460049-85-8 460049-87-0 460049-88-1 460049-89-2 460049-90-5  
 460049-92-7 460049-94-9 460049-96-1 460049-98-3 460050-00-4  
 460050-02-6 460050-04-8 460050-08-2 460050-09-3 460050-10-6  
 460050-11-7 460050-12-8

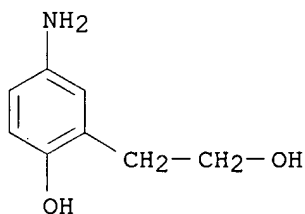
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair** dyes contg. 2,3-diaminophenol derivs. as  
 coupling agents)

IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair** dyes contg. 2,3-diaminophenol derivs. as  
 coupling agents)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 9 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:615598 HCAPLUS

DN 137:174510

TI Oxidative hair dyes containing 1,3-diamino-4-heteroarylbenzene derivatives  
 and novel 1,3-diamino-4-heteroarylbenzene derivatives

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella Aktiengesellschaft, Germany

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062783	A1	20020815	WO 2001-EP10411	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
EP 1261599 A1 20021204 EP 2001-960727 20010910  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
BR 2001009607 A 20030204 BR 2001-9607 20010910  
US 2003093867 A1 20030522 US 2002-169120 20020626  
PRAI DE 2001-10104768 A 20010202  
WO 2001-EP10411 W 20010910  
OS MARPAT 137:174510  
AB The invention concerns oxidative hair dyes that contg.  
1,3-diamino-4-heteroarylbenzene derivs. or their physiol. acceptable,  
water-sol. salts as coupling dyes; the hair dyes further contain  
developers, other coupling dyes and direct dyes. Thus  
1,3-Diamino-4-(thiophene-2-yl)benzene hydrochloride was synthesized and  
used in a hair dye prepn. as a 0.1 g ingredient; other components were  
(g): 1,4-diaminobenzene 0.30; 1,3-dihydroxy benzene 0.20 ; 3-aminophenol  
0.05; potassium oleate (8% aq.soln.) 10.0; ammonia (22% aq.soln.) 10.0;  
ethanol 10.0; ascorbic acid 0.3; water to 100.0.  
IC ICM C07D333-20  
ICS C07D277-28; A61K007-13  
CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 27  
IT 89-57-6, 5-Aminosalicylic acid 90-15-3, 1-Naphthol 92-65-9,  
4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline  
95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5,  
1-Chloro-2,4-dihydroxy benzene 99-98-9, 4-Dimethylaminoaniline  
101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, biological  
studies 108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3,  
1,3-Dihydroxy benzene, biological studies 123-30-8, 4-Aminophenol  
150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluoro-phenol  
399-96-2, 4-Amino-2-fluoro-phenol 533-31-3, 3,4-Methylenedioxy phenol  
591-27-5, 3-Aminophenol 608-25-3, 2-Methyl-1,3-dihydroxy benzene  
615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-  
Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone  
1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6,  
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-95-2,  
5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5,  
2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7,  
2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene  
5697-02-9, 1-Acetoxy-2-methyl-naphthalene 5862-80-6,  
4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-  
dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7575-35-1,  
4-[Di(2-hydroxyethyl)amino]aniline 7722-84-1, Hydrogen peroxide,  
biological studies 17672-22-9, 2-Amino-6-methylphenol 26455-21-0,  
N-(3-Dimethylamino)phenylurea 29785-47-5, 4-Amino-2-  
(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole  
56216-28-5, 3,5-Diamino-2,6-dimethoxy-pyridine dihydrochloride  
66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5,  
1,4-Diamino-2-aminomethylbenzene 70643-20-8, 1,3-Diamino-4-(2-  
hydroxyethoxy)-benzene sulfate 73793-80-3, 1,4-Diamino-2-  
hydroxymethylbenzene 74918-21-1, 1,3-Bis(2,4-diaminophenoxy)propane  
tetrahydrochloride 79352-72-0, 4-Amino-2-(aminomethyl)phenol  
83763-48-8, 2-Amino-4-(2-hydroxyethylamino)-anisole sulfate 84540-50-1,  
3-Amino-2-chloro-6-methylphenol 90817-34-8, 3-Amino-2-methylamino-6-  
methoxy-pyridine 94158-14-2, 4-(2-Hydroxyethyl)amino-1,2-  
methylenedioxybenzene hydrochloride 97902-52-8, 1,4-Diamino-2-(1-  
methylethyl)benzene 104333-08-6, 4-Amino-2-(2-

hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol  
 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8,  
 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0,  
 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1,  
 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-  
 aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5,  
 1,4-Bis[(4-Aminophenyl)amino]butane 155601-16-4, 4,5-Diamino-1-[(1-  
 methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-  
 pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole  
 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole  
 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7,  
 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-  
 1,4-diaminobenzene 217311-43-8, 2,4-Diamino-5-fluoro-toluene sulfate  
 244104-61-8 246244-41-7 306959-12-6 329320-36-7,  
 1-(2,5-Diaminophenyl)ethanol 337906-36-2, 1,4-Diamino-2-  
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 methylphenol sulfate 446234-23-7 446234-24-8

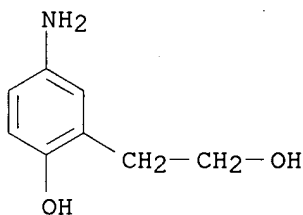
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes contg. 1,3-diamino-4-heteroarylbenzene  
 derivs. and novel 1,3-diamino-4-heteroarylbenzene derivs.)

IT 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes contg. 1,3-diamino-4-heteroarylbenzene  
 derivs. and novel 1,3-diamino-4-heteroarylbenzene derivs.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 10 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:615366 HCAPLUS

DN 137:159005

TI Oxidative hair dyes containing (1.1'-biphenyl)-2,4-diamine derivatives in  
 addition to novel (1.1'-biphenyl)-2,4-diamine-derivatives

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella Aktiengesellschaft, Germany

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002062307	A1	20020815	WO 2001-EP10409	20010910

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10104770 C1 20021017 DE 2001-10104770 20010202

BR 2001009744 A 20030204 BR 2001-9744 20010910

PRAI DE 2001-10104770 A 20010202

WO 2001-EP10409 W 20010910

OS MARPAT 137:159005

AB The invention relates to coloring agents hair contg. [1.1'-biphenyl]-2,4-diamine derivs. or their physiol. acceptable water sol. salts in addn. to novel [1.1'-biphenyl]-2,4-diamine derivs. Thus biphenyl-2,4,4'-triamine hydrochloride was synthesized and use in a hair dye as a 1.25 mmol component that further contained: 1.25 mmol 1,4-diaminobenzene; potassium oleate (8% aq.soln.) 1.0 g; ammonia (22% aq.soln.) 1.0 g; ethanol 1.0 g; ascorbic acid 0.3 g; water to 100 g.

IC ICM A61K007-13

ICS C07C215-74; C07C217-80; C07C209-52; C07C255-58; C07C225-22;

C07C323-31; C07D317-58

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

IT 89-57-6, 5-Aminosalicylic acid 92-52-4D, Biphenyl, derivs. 92-65-9,  
4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline  
95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9,  
4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3,  
1,4-Diaminobenzene, biological studies 123-30-8, 4-Aminophenol  
150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluoro-phenol  
399-96-2, 4-Amino-2-fluoro-phenol 615-66-7, 2-Chloro-1,4-diaminobenzene  
1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-  
pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6,  
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-69-0,  
[1,1'-Biphenyl]-2,4,4'-triamine 2835-96-3, 4-Amino-2-methylphenol  
2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol  
4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-  
dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline  
6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2,  
1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-  
hydroxyethyl)amino]aniline 7722-84-1, Hydrogen peroxide, biological  
studies 16069-32-2, Biphenyl-2,4-diamine 17672-22-9,  
2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol  
45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 66566-48-1,  
4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-  
aminomethylbenzene 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene  
79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8,  
1,4-Diamino-2-(2-hydroxyethyl)benzene 96886-30-5 97902-52-8,  
1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**,  
4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-  
(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline  
105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl  
110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1,  
1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-  
aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5,  
1,4-Bis[(4-Aminophenyl)amino]butane 155601-16-4, 4,5-Diamino-1-(1-  
methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-  
pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole



157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole  
 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7,  
 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-  
 1,4-diaminobenzene 244104-61-8 246244-41-7 306959-12-6  
 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 443753-63-7,  
 4-Benzo[1,3]dioxol-5-yl-benzene-1,3-diamine 446033-16-5 446033-19-8  
 446033-20-1

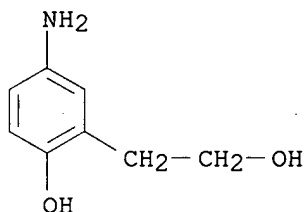
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair** dyes contg. (1.1'-biphenyl)-2,4-diamine  
 derivs. in addn. to novel (1.1'-biphenyl)-2,4-diamine-derivs.)

IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair** dyes contg. (1.1'-biphenyl)-2,4-diamine  
 derivs. in addn. to novel (1.1'-biphenyl)-2,4-diamine-derivs.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 11 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:607525 HCAPLUS

DN 137:159001

TI Oxidative hair dyes containing 1,3-diamino-5-heteroaryl benzene  
 derivatives and synthesis of these dyes

PA Wella Ag, Germany

SO Ger. Gebrauchsmusterschrift, 36 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20203720	U1	20020814	DE 2002-20203720	20020307
	DE 10114425	C1	20020822	DE 2001-10114425	20010324
PRAI	DE 2001-10114425	IA	20010324		
OS	MARPAT 137:159001				

AB The invention concerns oxidative hair dyes that contg.  
 1,3-diamino-4-heteroarylbenzene derivs. or their physiol. acceptable,  
 water-sol. salts as coupling agents and developers; the hair dyes also can  
 contain other coupling dyes and direct dyes. Thus 1,3-Diamino-5-  
 (thiophene-2-yl)benzene hydrochloride was synthesized and used in a hair  
 dye prepn. as a 1.25 mmol ingredient; other components were:  
 1,4-diaminobenzene 1.25 mmol; potassium oleate (8% aq.soln.) 1.0 g;  
 ammonia (22% aq.soln.) 1.0 g; ethanol 1.0 g; ascorbic acid 0.3 g; water to  
 100.0.

IC ICM C07D333-06

ICS C07D333-26; C07D277-02; A61K007-13; C07D307-34; C07D207-30;  
C07D233-54

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9, 4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3, 1,4-Diaminobenzene, biological studies 123-30-8, 4-Aminophenol 150-75-4, 4-Methylaminophenol 399-95-1, 4-Amino-3-fluoro-phenol 399-96-2, 4-Amino-2-fluoro-phenol 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-aminomethylbenzene 73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-Aminophenyl)amino]butane 155601-16-4, 4,5-Diamino-1-[(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 244104-61-8 246244-41-7 306959-12-6 329320-36-7, 1-(2,5-Diaminophenyl)ethanol 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene

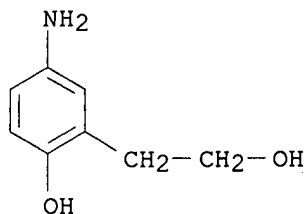
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair** dyes contg. 1,3-diamino-5-heteroaryl benzene  
derivs. and synthesis of dyes)

IT **104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair** dyes contg. 1,3-diamino-5-heteroaryl benzene  
derivs. and synthesis of dyes)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 12 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:553048 HCAPLUS

DN 137:109116

TI (1,1'-Biphenyl)-3,5-diamine derivatives containing coloring agent as well as new (1,1'-biphenyl)-3,5-diamine derivatives for the oxidative coloring of keratin fibers

PA Wella A.-G., Germany

SO Ger. Gebrauchsmusterschrift, 41 pp.

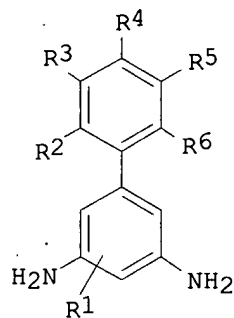
CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20202609	U1	20020725	DE 2002-20202609	20020220
PRAI	DE 2001-10111937	IA	20010313		
OS	MARPAT 137:109116				
GI					



I

AB A medium for the oxidative coloring of keratin fibers on the basis of a developer/generator substance coupling agent combination, is characterized by the fact that it has as coupling agent at least 1,1'-Biphenyl-3,5-diamine deriv., e.g., I [R1 = H, halogen, C1-4-alkoxy, C1-4-hydroxyalkoxy, a C1-6-alkyl, C1-4-alkylthio, CF3, SiMe3, C1-4-hydroxyalkyl, C2-4-dihydroxyalkyl; R2, R3, R4, R5, R6 = H, halogen, CN, OH, C1-4-alkoxy, C1-4-hydroxyalkoxy, C1-6-alkyl, C1-4-alkylthio, SH, NO2, NH2, C1-4-monoalkylamino, di(C1-4-alkyl)amino, CF3, CHO, C(O)Me, C(O)CF3, a SiMe3, C1-4-hydroxyalkyl, C2-4-dihydroxyalkyl, -CH:CHR7, (CH2)pCO2R8, (CH2)pR9, a -C(R10):NR11, CH(R13)NR14R15; R2R3, R5R6 = OCH2O; R7 = H, NO2, CO2R8, -C(O)Me; R8, R10, R13 = H, C1-4-alkyl; R9 = NH2, CN; R11, R14, R15

= H, OH, C1-4-alkyl, C1-4-hydroxyalkyl, C2-4-dihydroxyalkyl, C6H4R12; R12 = H, NH2, OH; p = 1, 2, 3 or 4] or its salt with an inorg. or org. acid have no inversion center. Thus, (1,1'-Biphenyl)-3,5-diamine hydrochloride (I.cntdot.HCl; R1 - R6 = H) was prepd. from 5-bromo-1,3-phenylenediamine via protection with di(tert-butyl) dicarbonate, palladium-catalyzed coupling with 4,4,5,5,4',4',5',5'-octamethyl[2,2']bi[[1,3,2]dioxaborolanyl], palladium-catalyzed coupling of the resulting borolane with PhBr, and deprotection with HCl in EtOH.

IC ICM C07C211-51

ICS C07C215-68; C07C217-80; C07C225-22; C07C255-49; C07C323-31;  
D06P001-32; C07D317-48

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 40, 41

IT 89-57-6, 5-Aminosalicylic acid 90-15-3, 1-Naphthol 92-65-9,  
4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline  
95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-72-7,  
2-Chloro-1,4-dimethylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene  
99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-(Phenylamino)aniline  
106-50-3, 1,4-Diaminobenzene, biological studies 108-46-3,  
1,3-Dihydroxybenzene, biological studies 123-30-8, 4-Aminophenol  
150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol  
399-96-2, 4-Amino-2-fluorophenol 533-31-3, 3,4-(Methylenedioxy)phenol  
591-27-5, 3-Aminophenol 608-25-3, 2-Methyl-1,3-dihydroxybenzene  
1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-  
pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6,  
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-95-2,  
5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5,  
2-Amino-5-methylphenol 2835-99-6, 3-Methyl-4-aminophenol 4318-76-7,  
2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene  
5697-02-9, 1-Acetoxy-2-methylnaphthalene 5862-80-6, 4-[(2,3-  
Dihydroxypropyl)amino]aniline 6369-59-1, 2,5-Diaminotoluene sulfate  
6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2,  
1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-  
hydroxyethyl)amino]aniline 17672-22-9, 2-Amino-6-methylphenol  
29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3,  
4,5-Diamino-1-methyl-1H-pyrazole 58262-44-5, N,N-Bis(2-hydroxyethyl)-p-  
phenylenediamine sulfate 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline  
67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 70643-20-8,  
1,3-Diamino-4-(2-hydroxyethoxy)benzene sulfate 73793-80-3,  
1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-  
(aminomethyl)phenol 83763-48-8, 2-Amino-4-[(2-hydroxyethyl)amino]anisole  
sulfate 84540-50-1, 3-Amino-2-chloro-6-methylphenol 88209-80-7,  
3,5-Diamino-(1,1'-biphenyl)-4-ol 91391-76-3, (1,1'-Biphenyl)-3,5-diamine  
93841-25-9, 2-(2,5-Diaminophenyl)ethanol sulfate 94158-14-2,  
4-[(2-Hydroxyethyl)amino]-1,2-(methylenedioxy)benzene hydrochloride  
96886-30-5 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene  
**104333-08-6**, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7,  
4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-  
Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline  
109942-17-8, 2,5-Diamino-1,1'-biphenyl 110952-46-0, 4-Amino-2-[[2-  
hydroxyethyl)amino]methyl]phenol 126335-43-1, 1,4-Diamino-2-  
(hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-  
hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-  
aminophenyl)amino]butane 131657-78-8, 6-Chloro-2-(ethylamino)-4-  
nitrophenol 135043-64-0, 4-Amino-2-(aminomethyl)phenol dihydrochloride  
155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5,  
4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 155601-30-2,  
4,5-Diamino-1-(2-hydroxyethyl)pyrazole sulfate 157469-54-0,

4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1,  
 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7,  
 1,8-Bis[(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7,  
 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-  
 1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(thien-2-yl)benzene  
 246244-41-7, 1,4-Diamino-2-(thien-3-yl)benzene 306959-12-6,  
 1,4-Diamino-2-(pyridin-3-yl)benzene 329320-36-7, 1-(2,5-  
 Diaminophenyl)ethanol 337906-36-2, 1,4-Diamino-2-(methoxymethyl)benzene  
 350482-02-9, 5-Amino-4-fluoro-2-methylphenol sulfate 443753-63-7,  
 4-[Benzo[1,3]dioxol-5-yl]benzene-1,3-diamine 443753-64-8,  
 4'-Fluoro-1,1'-biphenyl-3,5-diamine 443753-65-9, 4'-Amino-1,1'-biphenyl-  
 3,5-diamine 443753-66-0, 3'-Hydroxy-1,1'-biphenyl-3,5-diamine  
 443753-67-1, 4'-Methoxy-1,1'-biphenyl-3,5-diamine

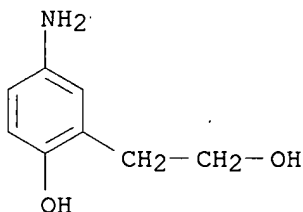
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye component; prepn. of (1,1'-biphenyl)-3,5-diamine  
 derivs. as coloring agents for the oxidative coloring of  
 keratin fibers)

IT 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye component; prepn. of (1,1'-biphenyl)-3,5-diamine  
 derivs. as coloring agents for the oxidative coloring of  
 keratin fibers)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 13 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:747103 HCAPLUS

DN 135:308585

TI 1,3-Dihydroxybenzene derivatives and compositions containing them as  
 coloring agents for keratin fibers

PA Wella AG, Germany

SO Ger. Gebrauchsmusterschrift, 45 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20108704	U1	20011011	DE 2001-20108704	20010525
	WO 2002096901	A2	20021205	WO 2002-EP850	20020128
	WO 2002096901	A3	20030313		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,

UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
BR 2002005398 A 20030701 BR 2002-5398 20020128  
PRAI DE 2001-10125453 A 20010525  
DE 2001-20108704 U 20010525  
WO 2002-EP850 W 20020128  
OS MARPAT 135:308585  
AB An agent for coloring keratin fibers comprises a coupling agent combined  
with a developing agents. The invention comprises at least one  
1,3-dihydroxybenzene deriv. having a mol. structure defined in the claims.  
Among the derivs. of the invention are 1,3-dihydroxy-4-(thiophen-2-  
yl)benzene and 1,3-dihydroxy-4-(5-nitrothiophen-2-yl)benzene. A developer  
that can be used is 1,4-diaminobenzene.  
IC ICM C07D333-04  
ICS A61K007-13; C07D213-04; C07D239-26  
CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 25, 27  
IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-  
pyrazolone 89-57-6, 5-Aminosalicylic acid 89-83-8,  
5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5,  
1H-Indole-2,3-dione 91-68-9, 3-Diethylaminophenol 92-44-4,  
2,3-Dihydroxynaphthalene 92-65-9 93-05-0 95-55-6, 2-Aminophenol  
95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-  
dihydroxybenzene 99-07-0, 3-Dimethylaminophenol 99-98-9 101-54-2  
106-50-3, 1,4-Diaminobenzene, biological studies 108-45-2,  
1,3-Diaminobenzene, biological studies 108-46-3, 1,3-Dihydroxybenzene,  
biological studies 123-30-8, 4-Aminophenol 137-19-9 141-86-6,  
2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1,  
4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3,  
3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2,  
1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5,  
3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-66-7  
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2,4,5,6-Tetraaminopyrimidine 1004-75-7 1630-11-1 1687-53-2  
1953-54-4, 5-Hydroxyindole 2359-52-6 2380-84-9, 7-Hydroxyindole  
2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2,  
5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5,  
2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 3131-52-0,  
5,6-Dihydroxyindole 4318-76-7, 2,5-Diaminopyridine 5306-96-7  
5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9 5862-80-6  
6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-[(2-  
Hydroxyethyl)amino]aniline 6393-01-7 6941-70-4 7218-02-2  
7469-77-4, 2-Methyl-1-naphthol 7575-35-1 14268-66-7,  
3,4-Methylenedioxyaniline 16867-03-1, 2-Amino-3-hydroxypyridine  
17672-22-9, 2-Amino-6-methylphenol 22446-41-9 26011-57-4,  
6-Amino-3,4-Dihydro-1,4(2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-  
hydroxy-1,4(2H)-benzoxazine 26455-21-0, N-(3-Dimethylaminophenyl)urea  
28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5,  
5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-methoxymethylphenol  
39489-79-7, 5-Amino-2,4-dichlorophenol 45514-38-3 53222-92-7,  
3-Amino-2-methylphenol 55302-96-0 61693-42-3, 3-Amino-2,4-  
dichlorophenol 66566-48-1 67199-87-5 70643-19-5,  
2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7 71500-41-9  
71500-42-0 73793-80-3 75513-65-4 76045-64-2 78661-33-3  
79352-72-0, 4-Amino-2-aminomethylphenol 80592-80-9 80592-81-0

81329-90-0 81892-72-0 83763-47-7, 2-Amino-4-[(2-hydroxyethyl)amino] anisole 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7 90817-34-8 93841-24-8 94082-77-6 97902-52-8 **104333-08-6** 104333-09-7, 4-Amino-2-hydroxymethylphenol 104752-48-9 104752-50-3 104752-51-4 105293-89-8 109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110102-86-8, 5-Amino-4-chloro-2-methylphenol 110952-46-0 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 126335-43-1 128729-30-6 130582-53-5 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 137290-86-9 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2 141614-05-3 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2 146658-65-3 155601-16-4 155601-17-5 157469-54-0 157469-55-1 159661-45-7 168092-23-7 168202-61-7, 4-Amino-3-hydroxymethylphenol 207568-58-9 207923-07-7 244104-61-8 246244-41-7 306959-12-6 307493-94-3 329320-36-7 337906-36-2 359866-26-5 359866-36-7 365548-62-5 365548-63-6 365548-64-7 365548-65-8 365548-66-9 365548-67-0 365548-68-1 365548-73-8

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent); USES (Uses)

(1,3-dihydroxybenzene derivs. and compns. contg. them as coloring agents for **keratin** fibers)

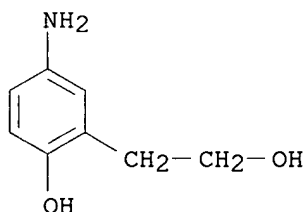
IT **104333-08-6**

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent); USES (Uses)

(1,3-dihydroxybenzene derivs. and compns. contg. them as coloring agents for **keratin** fibers)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 14 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:729681 HCAPLUS

DN 135:288573

TI Preparation of aminophenol derivatives and their use in coloring agents

PA Wella AG, Germany

SO Ger. Gebrauchsmusterschrift, 40 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 20111038

U1 20011004

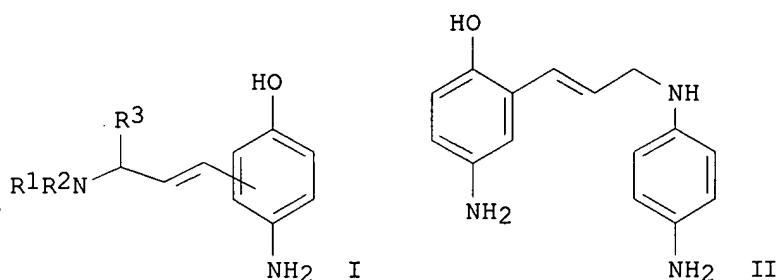
DE 2001-20111038 20010704

PRAI DE 2001-20111038

20010704

OS MARPAT 135:288573

GI



AB Para-aminophenol derivs. I [R<sub>1</sub>, R<sub>2</sub> = H, C1-2-alkoxy, C1-6-alkyl, C3-6-alkenyl, C2-4-hydroxyalkyl, C3-4-dihydroxyalkyl, C2-4-aminoalkyl, C2-4-(dimethylamino)alkyl, C2-4-(acetylamino)alkyl, C2-4-methoxyalkyl, C2-4-ethoxyalkyl, C1-4-cyanoalkyl, C1-4-carboxyalkyl, C1-4-(aminocarbonyl)alkyl, pyridylmethyl, furfuryl, thienylmethyl, hydrogenated furfuryl, (un)substituted pyridyl, Ph, aminopyrazolyl; R<sub>1</sub>R<sub>2</sub>N = (un)substituted piperidino, morpholino, piperazino, pyrrolidino; R<sub>3</sub> = H, C1-6-alkyl] their physiolog. compatible, water sol. salts are claimed. Thus, 4-amino-2-[3-[(4-aminophenyl)amino]propenyl]phenol hydrochloride (II.cntdot.HCl) was prepd. from 4-HOC<sub>6</sub>H<sub>4</sub>NHBoc (Boc = CO<sub>2</sub>CMe<sub>3</sub>) via ortho bromination, hydroxyl group protection with ClCH<sub>2</sub>OEt, debromination-formylation, Wittig reaction with Ph<sub>3</sub>P:CHCHO, and reductive amination with 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHBoc. I were used in oxidative hair coloring formulations.

IC ICM C07C215-80

ICS C07C217-08; D06P001-645; A61K007-13; C07D317-48; C07D295-04; C07D521-00; C07F007-10

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 41, 62

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-57-6, 5-Aminosalicyclic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-(Diethylamino)phenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-(Dimethylamino)phenol 99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, uses 108-45-2, 1,3-Diaminobenzene, uses 108-46-3, 1,3-Dihydroxybenzene, uses 137-19-9 141-86-6, 2,6-Diaminopyridine 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3, 3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7 1630-11-1 1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6,



4-Amino-3-methylphenol 3131-52-0, 5,6-Dihydroxyindole 4318-76-7,  
2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene  
5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9 5862-80-6  
6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6358-09-4,  
2-Amino-6-chloro-4-nitrophenol 6393-01-7, 1,4-Diamino-2,5-  
dimethylbenzene 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene  
7218-02-2 7228-00-4 7469-77-4, 2-Methyl-1-naphthol 7575-35-1  
14268-66-7, 1,3-Benzodioxol-5-amine 16867-03-1, 2-Amino-3-  
hydroxypyridine 17672-22-9, 2-Amino-6-methylphenol 26011-57-4,  
6-Amino-3,4-dihydro-1,4(2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-  
hydroxy-1,4(2H)-benzoxazine 26455-21-0, N-[3-(Dimethylamino)phenyl]urea  
28020-38-4, 2,3-Diamino-6-methoxypyridine 28365-08-4 29539-03-5,  
5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-(methoxymethyl)phenol  
39489-79-7, 5-Amino-2,4-dichlorophenol 45514-38-3 53222-92-7,  
3-Amino-2-methylphenol 55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-  
methylphenol 61693-42-3, 3-Amino-2,4-dichlorophenol 66566-48-1,  
4-[(2-Methoxyethyl)amino]aniline 67199-87-5 70643-19-5,  
2,4-Diamino-1-(2-hydroxyethoxy)benzene 70643-20-8 71077-37-7  
71500-41-9 71500-42-0 73793-80-3 75513-65-4 76045-64-2  
78661-33-3 79352-72-0, 4-Amino-2-(aminomethyl)phenol 80592-80-9  
80592-81-0 81892-72-0 83763-47-7, 2-Amino-4-[(2-  
hydroxyethyl)amino]anisole 83763-48-8 83789-94-0 84540-47-6,  
2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7 84540-50-1,  
3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-  
dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol  
90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 93841-24-8,  
1,4-Diamino-2-(2-hydroxyethyl)benzene 94082-77-6 97902-52-8,  
1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6** 104333-09-7,  
4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-  
Hydroxypropyl)amino]aniline 104752-50-3 104752-51-4 105293-89-8  
109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110102-86-8,  
5-Amino-4-chloro-2-methylphenol 110952-46-0, 4-Amino-2-[(2-  
hydroxyethyl)amino]methylphenol 111451-24-2, 2,6-Diamino-3,5-  
dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene  
122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8 126335-43-1  
128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol  
130582-53-5 131657-78-8 135043-64-0, 4-Amino-2-(aminomethyl)phenol  
dihydrochloride 137290-78-9, 5-Amino-4-methoxy-2-methylphenol  
137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol  
139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2 141614-05-3,  
2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5,  
2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2 146658-65-3  
149330-25-6 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole  
155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0,  
4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1  
168092-23-7 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9  
207923-07-7 217311-43-8 244028-59-9, 5-[(2-Hydroxyethyl)amino]-1,3-  
benzodioxole 244104-61-8 246244-41-7 306959-12-6 307493-94-3  
329320-36-7 337906-36-2 364328-00-7 364328-01-8 364328-20-1  
364328-21-2

RL: NUU (Other use, unclassified); USES (Uses)

(oxidative **hair** coloring component; prepn. of aminophenol  
derivs. and their use in coloring agents)

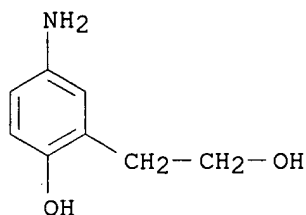
IT **104333-08-6**

RL: NUU (Other use, unclassified); USES (Uses)

(oxidative **hair** coloring component; prepn. of aminophenol  
derivs. and their use in coloring agents)

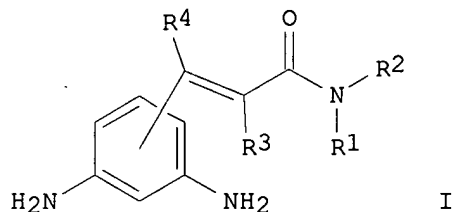
RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 15 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:729680 HCAPLUS  
 DN 135:288588  
 TI (m-Diaminophenyl)acrylamide derivatives and hair coloring agents  
 containing these compounds  
 PA Wella AG, Germany  
 SO Ger. Gebrauchsmusterschrift, 48 pp.  
 CODEN: GGXXFR  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20111037	U1	20011004	DE 2001-20111037	20010704
PRAI	DE 2001-20111037		20010704		
OS	MARPAT 135:288588				
GI					



I

AB (m-Diaminophenyl)acrylamide derivs. I [R1, R2 = H, C1-2 alkoxy, C1-6 alkyl, unsatd. C3-6 alkyl, C2-4 hydroxyalkyl, C3-4 dihydroxyalkyl, C2-4 aminoalkyl, a C2-4 dimethylaminoalkyl, C2-4 acetylaminoalkyl, a C2-4 methoxyalkyl, C2-4 ethoxyalkyl, C1-4 cyanoalkyl, C1-4 carboxyalkyl, C2-4 aminocarbonylalkyl, pyridylmethyl, furfuryl, hydrogenated furfuryl, substituted pyridyl, (un)substituted Et, (un)substituted Ph, substituted aminopyrazolyl; or R1 and R2 together with the N atom form a ring; R3, R4 = H, C1-4 alkyl; preferably, R3 = R4 = H, or R1, R2 and R4 = H, R2 = aminophenyl, hydroxyphenyl] or their physiol. compatible, water-sol. salts, useful in oxidative hair dyes based on a developer substance-coupling substance combination in one suitable cosmetic carrier, are claimed. Preferred compds. I are 3-(2,4-diaminophenyl)-1-morpholinopropenone, 3-(2,4-diaminophenyl)-N-(4-hydroxyphenyl)acrylamide, 3-(3,5-diaminophenyl)-N-(4-hydroxyphenyl)acrylamide, N-(3-aminophenyl)-3-

(3,5-diaminophenyl)acrylamide and N-(4-aminophenyl)-3-(3,5-diaminophenyl)acrylamide, or their physiol. acceptable salts (prepn. given). In examples given, compds. I are formulated with one or more known developer substances and one or more known addnl. coupling substances to give various shades of color when applied to hair; e.g., 0.10 g 3-(2,4-diaminophenyl)-1-morpholinopropenone HCl salt, 0.30 g 1,4-diaminobenzene, 0.05 g 1,3-diamino-4-(2-hydroxyethyl)aminoanisole sulfate, and 0.05 g 3-aminophenol (formulation given) afforded blond hair.

IC ICM C07C237-20

ICS A61K007-13; C07D317-48; C07D295-04

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 62

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[N-Ethyl-N-(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, biological studies 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 1,4-Diamino-2-chlorobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4(1H)pyrimidinone 1630-11-1 2359-52-6 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6 6369-59-1, 2,5-Diaminotoluene sulfate 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2 7575-35-1 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 58262-44-5 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 73793-80-3, 1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6** 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-aminophenyl)amino]butane 135043-64-0, 4-Amino-2-aminomethylphenol dihydrochloride 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159621-77-9 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-(2-(Acetylamino)ethoxy)-1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(2-thienyl)benzene 246244-41-7, 1,4-Diamino-2-(3-thienyl)benzene 306959-12-6, 1,4-Diamino-2-(3-pyridyl)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-(methoxymethyl)benzene 364343-79-3

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(developer substance component in oxidative hair dye based on developer-coupling substance combination)

IT **104333-08-6**

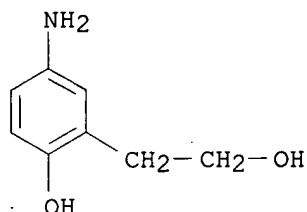
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(developer substance component in oxidative hair dye based on

developer-coupling substance combination)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 16 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:729678 HCAPLUS

DN 135:288587

TI Aminomethyl-m-dihydroxybenzene derivatives and coloring agents for keratin fibers containing these compounds

PA Wella AG, Germany

SO Ger. Gebrauchsmusterschrift, 35 pp.

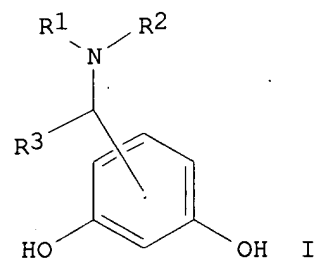
CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20110356	U1	20011004	DE 2001-20110356	20010622
PRAI	DE 2001-20110356		20010622		
OS	MARPAT 135:288587				
GI					



AB Aminomethyl-m-dihydroxybenzene derivs. I [R1, R2 = H, C1-2 alkoxy, C1-6 alkyl, C3-6 alkenyl, C2-4 hydroxyalkyl, C3-4 dihydroxyalkyl, C2-4 aminoalkyl, C2-4 dimethylaminoalkyl, C2-4 acetylaminoalkyl, C2-4 methoxyalkyl, C2-4 ethoxyalkyl, C1-4 cyanoalkyl, C1-4 aminocarbonylalkyl, pyridylmethyl, furfuryl, thienylmethyl, substituted pyridyl, (un)substituted phenylmethyl or -Et, or R1 and R2 together with the N atom form a ring, including (un)substituted piperidino, morpholino, piperazino, pyrrolidino; R3 = H, C1-4 alkyl; preferably, R3 = H and/or one of R1 or R2 = C2-4 hydroxyalkyl, 3,4-methylenedioxyphenyl, Ph] or their physiol. compatible, water-sol. salts, useful as couplers in oxidative hair dyes based on a developer substance-coupling substance combination in one

suitable cosmetic carrier, are claimed. In examples given, compds. I are formulated with one or more known developer substances and one or more known addnl. coupling substances to give various shades of color when applied to hair; e.g., a prepn. contg. 0.20 g 1,3-dihydroxy-(4-phenylaminomethyl)benzene (prepn. given) 0.15 g 1,4-benzenediamine, 0.30 g 3-methyl-4-aminophenol and 0.30 1-naphthol (formulation given) afforded red-brown hair.

IC ICM C07C215-46

ICS A61K007-13

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 62

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[N-Ethyl-N-(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, biological studies 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 1,4-Diamino-2-chlorobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4(1H)pyrimidinone 1630-11-1 2359-52-6, 4-[Bis(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6369-59-1 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2 7575-35-1, 4-[Bis(2-hydroxyethyl)amino]aniline 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 58262-44-5 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 73793-80-3, 1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6** 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-aminophenyl)amino]butane 135043-64-0 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1 159621-77-9 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-(2-(Acetylamino)ethoxy)-1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(2-thienyl)benzene 246244-41-7, 1,4-Diamino-2-(3-thienyl)benzene 306959-12-6, 1,4-Diamino-2-(3-pyridyl)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 364343-79-3

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(developer substance component in oxidative hair dye based on developer-coupling substance combination)

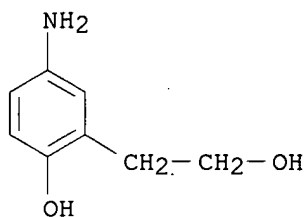
IT **104333-08-6**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(developer substance component in oxidative hair dye based on developer-coupling substance combination)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 17 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:729677 HCAPLUS

DN 135:288586

TI Preparation of (dihydroxyphenyl)acrylamide derivatives and compositions containing coloring agents

PA Wella AG, Germany

SO Ger. Gebrauchsmusterschrift, 52 pp.

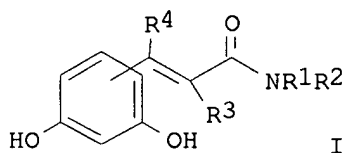
CODEN: GGXXFR

DT Patent

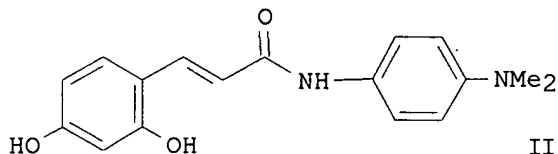
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20110355	U1	20011004	DE 2001-20110355	20010622
PRAI	DE 2001-20110355		20010622		
OS	MARPAT 135:288586				
GI					



I



II

AB (m-dihydroxyphenyl)acrylamide derivs. I [R1, R2 = H, C1-2-alkoxy, C1-6-alkyl, C3-6-alkenyl, C2-4-hydroxyalkyl, C3-4-dihydroxyalkyl, C2-4-aminoalkyl, C2-4-dimethylaminoalkyl, C2-4-acetylaminoalkyl, C2-4-methoxyalkyl, C2-4-ethoxyalkyl, C1-4-cyanoalkyl, C1-4-carboxyalkyl, C1-4-aminocarbonylalkyl, pyridylmethyl, furfuryl, hydrogenated furfuryl, substituted pyridyl, CHR5CHR6R7, (un)substituted Ph, aminopyrazolyl; R1R2N = (un)substituted piperidine, morpholine, the formulpiperazine, pyrrolidine; R3, R4 = H, C1-4-alkyl; R5 = H, CO2H, CONH2; R6, R7 = H, OH,

CONH2, CH2SMe, PH, hydroxyphenyl, morpholinyl, oxopyrrolidinyl, imidazolyl] or its physiol. compatible, water-sol. salts are claimed. Thus, 3-(2,4-dihydroxyphenyl)-N-[4-(dimethylamino)phenyl]acrylamide hydrochloride (II.cntdot.HCl), was prepd. from 2,4-(HO)2C6H4CHO, via hydroxyl group protection, Wittig with (MeO2C)CH:PPh3, sapon., amidation with 4-(Me2N)C6H4NH2 and deprotection. I were used in the prepn. of hair dye formulations and their color tints noted.

IC ICM C07C235-32

ICS A61K007-13; C07D295-04; C07D227-00

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 41

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-57-6, 5-Aminosalicylic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-(Diethylamino)phenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-(Dimethylamino)phenol 99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, uses 108-45-2, 1,3-Diaminobenzene, uses 108-46-3, 1,3-Dihydroxybenzene, uses 123-30-8, 4-Aminophenol 137-19-9 141-86-6, 2,6-Diaminopyridine 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3, 3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-50-9 615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4(1H)-pyrimidinone 1630-11-1 1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 3131-52-0, 5,6-Dihydroxyindole 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9, 2-Methyl-1-naphthyl acetate 5862-80-6 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7218-02-2 7228-00-4 7469-77-4, 2-Methyl-1-naphthol 7575-35-1 16867-03-1, 2-Amino-3-hydroxypyridine 17672-22-9, 2-Amino-6-methylphenol 26011-57-4 26021-57-8 26455-21-0, N-[3-(Dimethylamino)phenyl]urea 28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 39489-79-7, 5-Amino-2,4-dichlorophenol 45514-38-3 53222-92-7, 3-Amino-2-methylphenol 54381-16-7 55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3, 3-Amino-2,4-dichlorophenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 70643-20-8 71077-37-7 71500-41-9 71500-42-0 73793-80-3 74918-21-1, 1,3-Bis (2,4-diaminophenoxy)propane tetrahydrochloride 76045-64-2 78661-33-3 79352-72-0, 4-Amino-2-(aminomethyl)phenol 80592-80-9 80592-81-0 81892-72-0 83763-47-7, 2-Amino-4-[(2-hydroxyethyl)amino]anisole 83763-48-8 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene

93841-25-9 94082-77-6 94158-14-2 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene **104333-08-6** 104333-09-7,  
4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 104752-50-3 104752-51-4 105293-89-8  
109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110102-86-8,  
5-Amino-4-chloro-2-methylphenol 110952-46-0 111451-24-2,  
2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol  
122481-67-8 126335-43-1 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5 131657-78-8 135043-64-0,  
4-Amino-2-(aminomethyl)phenol dihydrochloride 137290-78-9,  
5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol  
141614-04-2 141614-05-3, 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2  
146658-65-3 149330-25-6 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole  
155601-30-2 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168092-23-7 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol  
207568-58-9 207923-07-7 217311-43-8 244028-59-9,  
5-[(2-Hydroxyethyl)amino]-1,3-benzodioxole 244104-61-8 246244-41-7  
306959-12-6 307493-94-3 329320-36-7 337906-36-2 364327-98-0  
364328-00-7 364328-01-8 364328-08-5

RL: NUU (Other use, unclassified); USES (Uses)

(oxidative **hair** dye component; prepn. of

(dihydroxyphenyl)acrylamide derivs. and compns. contg. coloring agents)

IT **104333-08-6**

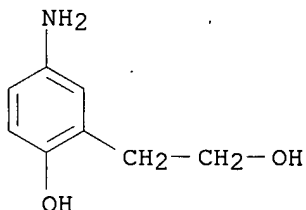
RL: NUU (Other use, unclassified); USES (Uses)

(oxidative **hair** dye component; prepn. of

(dihydroxyphenyl)acrylamide derivs. and compns. contg. coloring agents)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 18 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:718747 HCAPLUS

DN 131:327320

TI Substituted p-aminophenol, process of preparation and use in dyeing hair

IN Lim, Mu-Ill; Stasaitis, Linas R.; Pan, Yuh-Guo; Wong, Michael Y. M.

PA Bristol-Myers Squibb Company, USA

SO U.S., 14 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

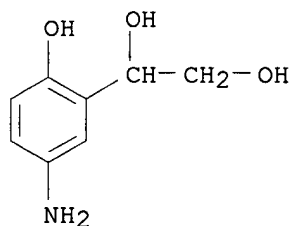
PATENT NO.

KIND DATE

APPLICATION NO. DATE



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PI US 5980584 A 19991109 US 1998-185023 19981103  
EP 1006104 A1 20000607 EP 1999-203597 19991101  
EP 1006104 B1 20020925  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
PRAI US 1998-185023 A 19981103  
AB The novel primary intermediate, 1-(5-amino-2-hydroxyphenyl)ethane-1,2-diol  
(I) and a method for producing same, are disclosed. The novel  
intermediate can be employed as a replacement for p-aminophenol in oxidn.  
dye formulations. I was prepd. by hydrogenation of 1-(5-nitro-2-  
hydroxyphenyl)ethane-1,2-diol (prepn. given) over Pd/C. An oxidative hair  
dye compn. contained cocamidopropyl betaine 17, ethanolamine 2, oleic acid  
0.75, citric acid 0.1, ammonium hydroxide 5, behentrimonium chloride 0.5,  
sodium sulfite 0.1, EDTA 0.1 Erythorbic acid 0.4, I 0.7,  
N,N-bis(2-hydroxyethyl)-p-phenylenediamine 0.05, p-phenylenediamine 0.05,  
1-(2,5-diaminophenyl)ethylene glycol 0.05, resorcinol 0.5 0.,  
4-amino-2-hydroxytoluene 0.3, 2-Methyl-5-hydroxyethylaminophenol 0.03,  
m-aminophenol 0.3, 1-naphthol 0.05, water q.s. 100. The color obtained on  
gray hair was auburn.  
IC ICM A61K007-13  
ICS C07C215-76; C07C209-36  
NCL 008408000  
CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 25  
IT **220264-60-8P**  
RL: BUU (Biological use, unclassified); **SPN (Synthetic  
preparation)**; BIOL (Biological study); **PREP (Preparation)**;  
USES (Uses)  
(substituted p-aminophenol, process of prepn. and use in dyeing  
hair)  
IT **220264-60-8P**  
RL: BUU (Biological use, unclassified); **SPN (Synthetic  
preparation)**; BIOL (Biological study); **PREP (Preparation)**;  
USES (Uses)  
(substituted p-aminophenol, process of prepn. and use in dyeing  
hair)  
RN 220264-60-8 HCAPLUS  
CN 1,2-Ethanediol, 1-(5-amino-2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 19 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1995:818788 HCAPLUS

DN 123:208456

TI Oxidative hair dye compositions containing a paraphenylenediamine

derivative and 2-methyl-5-aminophenol

IN Audousset, Marie-Pascale; Cotteret, Jean

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 667142	A1	19950816	EP 1994-402664	19941122
	EP 667142	B1	19970618		
	R: DE, ES, FR, GB, IT				
	FR 2715298	A1	19950728	FR 1994-703	19940124
	FR 2715298	B1	19960223		
	ES 2105574	T3	19971016	ES 1994-402664	19941122
	US 5529584	A	19960625	US 1994-361676	19941222
	CA 2139017	AA	19950725	CA 1994-2139017	19941223
	JP 08034716	A2	19960206	JP 1995-8520	19950123
PRAI	FR 1994-703		19940124		

AB The title oxidative hair dye compns. are claimed. A hair dye compn. contained 2-(.beta.-hydroxyethyl)paraphenylenediamine.2HCl 0.45, 2-methyl-5-aminophenol 0.40, polyglycerol oleyl alc. 9.7, oleic acid 3.0, ethoxylated oleyl amine 7.0, Na diethylaminopropyl laurylamino succinate 3.0, oleyl alc. 5.0, oleic acid diethanolamide 12.0, propylene glycol 3.5, Et alc. 7.0, dipropylene glycol 0.5, propylene glycol monomethyl ether 9.0, sodium meta-bisulfite 0.4, ammonium acetate 0.8, 20% ammonia soln. 10, antioxidants, sequestrants, and water q.s. 100 g.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 2835-95-2, 2-Methyl-5-aminophenol 2835-96-3 2835-99-6 93841-24-8  
**104333-08-6** 160950-38-9

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oxidative **hair** dye compns. contg. phenylenediamine and aminophenol derivs.)

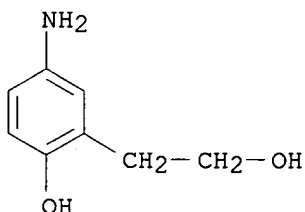
IT **104333-08-6**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oxidative **hair** dye compns. contg. phenylenediamine and aminophenol derivs.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 20 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:563679 HCAPLUS

KATHLEEN FULLER EIC 1700/PARKER LAW 308-4290

DN 121:163679

TI Oxidative hair dye compositions containing paraphenylenediamines, metaphenylenediamines, and benzimidazole derivatives

IN Audousset, Marie-Pascale; Cotteret, Jean

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 605320	A1	19940706	EP 1993-403190	19931228
	EP 605320	B1	19970409		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
	FR 2699816	A1	19940701	FR 1992-15945	19921230
	FR 2699816	B1	19950303		
	AU 9352710	A1	19940714	AU 1993-52710	19931224
	AU 674712	B2	19970109		
	CN 1096797	A	19941228	CN 1993-115688	19931228
	JP 07002636	A2	19950106	JP 1993-336036	19931228
	AT 151275	E	19970415	AT 1993-403190	19931228
	ES 2099930	T3	19970601	ES 1993-403190	19931228
	RU 2103989	C1	19980210	RU 1993-57740	19931229
	CA 2112653	AA	19940701	CA 1993-2112653	19931230
	HU 66199	A2	19941028	HU 1993-3793	19931230
	HU 213173	B	19970328		
	US 5578087	A	19961126	US 1995-461844	19950605
PRAI	FR 1992-15945	A	19921230		
	US 1993-174009	B1	19931228		

OS MARPAT 121:163679

AB Oxidative hair dye compns. contg. paraphenylenediamines, metaphenylenediamines, and benzimidazole derivs. (Markush structure given) are disclosed. A hair dye compn. comprised (A) 4-hydroxybenzimidazole.HBr 0.3, paraphenylenediamine.2HCl 3.1, 1-amino-3-(.beta.-hydroxyethylamino)-6-methoxybenzene.2HCl 0.423, and water q.s. 100% in a vehicle and (B) 20 vol H2O2 in phosphoric acid q.s. 100%. Natural 90% gray hair was washed with a mixt. of A and B and left for 30 min, then rinsed and washed with a shampoo to obtain a brown color.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 88-45-9 92-09-1 93-05-0 95-70-5 99-98-9 106-50-3, p-Phenylenediamine, biological studies 123-30-8 148-71-0 610-74-2 615-66-7 1630-11-1 2172-32-9 2359-52-6 2359-60-6 2442-80-0 2524-67-6 2800-11-5 2835-96-3 3096-69-3 3096-70-6 3096-71-7 3964-52-1 5307-00-6 5307-02-8 6393-01-7 7218-02-2 7575-35-1 14090-00-7 14791-78-7 15980-22-0 17609-80-2 19298-14-7 29785-47-5 52200-90-5 57524-59-1 61638-01-5 63969-43-7 66566-48-1 73793-80-3 79352-72-0 97902-51-7 97902-52-8 104333-08-6 104333-09-7 105293-89-8 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1 110952-46-0 128729-30-6 128729-31-7 130582-53-5 135855-35-5 157587-59-2 157587-60-5 157587-61-6

RL: BIOL (Biological study)

(oxidative hair dye compns. contg. benzimidazole derivs. and metaphenylenediamines and)

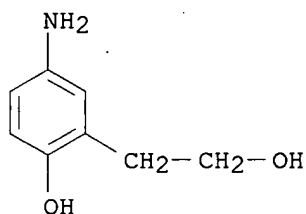
IT 104333-08-6

RL: BIOL (Biological study)

(oxidative hair dye compns. contg. benzimidazole derivs. and  
metaphenylenediamines and)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 21 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1992:136003 HCAPLUS

DN 116:136003

TI Acidic oxidative hair dye containing 4-hydroxyindol

IN Cotteret, Jean

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA French

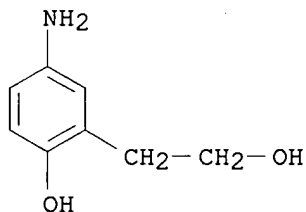
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 465340	A1	19920108	EP 1991-401802	19910702
	EP 465340	B1	19931229		
	EP 465340	B2	19970305		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	FR 2664304	A1	19920110	FR 1990-8569	19900705
	FR 2664304	B1	19921009		
	CA 2046035	AA	19920106	CA 1991-2046035	19910702
	AT 99162	E	19940115	AT 1991-401802	19910702
	ES 2062722	T3	19941216	ES 1991-401802	19910702
	AU 9180159	A1	19920109	AU 1991-80159	19910704
	AU 649454	B2	19940526		
	ZA 9105223	A	19920429	ZA 1991-5223	19910705
	JP 04230313	A2	19920819	JP 1991-165474	19910705
	JP 3098804	B2	20001016		
	US 5391206	A	19950221	US 1993-49657	19930412
PRAI	FR 1990-8569	A	19900705		
	EP 1991-401802	A	19910702		
	US 1991-726262	B1	19910705		

OS MARPAT 116:136003

AB An oxidative hair dye compn. comprises 4-hydroxyindole or its derivs., an oxidative hair dye precursor, and an oxidizing agent. The pH of the compn. is 1.0 to 7. A hair dye prepn. (pH 8.4; monoethanolamine) contained 2,5-diaminonitrobenzene 0.3, 4-hydroxyindole 0.25, p-phenylenediamine 0.4, m-aminophenol 0.15, Na lauryl ether sulfate 4.2, ethoxylated nonylphenol 1.0, ethylene glycol mono-Bu ether 9.5, Na metabisulfite 0.45, and water to 100.0 g. The prepn. was mixed with a soln. contg. 20 vol. H2O2 (pH 1.3), at equal wt./wt. ratio, to obtain a mixt. having pH 6.3 which dyed white hair to chestnut brown.

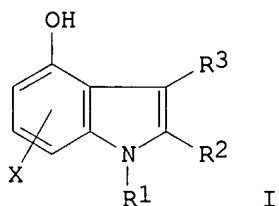
IC ICM A61K007-13  
CC 62-3 (Essential Oils and Cosmetics)  
IT 90-15-3, 1-Naphthalenol 92-09-1 95-70-5, 2-Methyl-p-phenylenediamine  
99-98-9 106-50-3, p-Phenylenediamine, uses 108-46-3, 1,3-Benzenediol,  
uses 120-80-9, Pyrocatechol, uses 123-30-8, p-Aminophenol 148-71-0  
150-19-6 533-31-3, 3,4-Methylenedioxyphenol 591-27-5 608-25-3  
615-05-4, 2,4-Diaminoanisole 615-66-7 2172-32-9, 4-Amino N,N-(ethyl,  
.beta.-sulfoethyl)aniline 2359-52-6 2359-60-6 2442-80-0 2524-67-6,  
N-[(4'-Amino)phenyl]morpholine 2628-69-5 2800-11-5 2835-95-2,  
2-Methyl 5-aminophenol 2835-96-3, 2-Methyl 4-amino phenol 2835-99-6,  
3-Methyl 4-aminophenol 3096-69-3, 2,3-Dimethyl 4-aminophenol  
3096-70-6, 3,5-Dimethyl 4-aminophenol 3096-71-7, 2,5-Dimethyl  
4-aminophenol 3964-52-1, 2-Chloro 4-amino phenol 5306-96-7 5307-00-6  
5307-02-8 6100-60-3, 2,4-Dihydroxyanisole 6393-01-7 6994-64-5,  
2,6-Dimethyl 3-aminophenol 7218-02-2 7575-35-1 7789-31-3D, Bromic  
acid, alkali metal salts 14090-00-7 14268-66-7, 3,4-  
Methylenedioxyaniline 15980-22-0, 2,6-Dimethyl 4-aminophenol  
17609-80-2, 3-Chloro 4-aminophenol 26011-57-4, 6-Aminobenzomorpholine  
26021-57-8, 6-Hydroxybenzomorpholine 29785-47-5, 2-Methoxymethyl  
4-aminophenol 46409-67-0 52200-90-5, 2-Methoxy 4-aminophenol  
55302-96-0, 2-Methyl 5-N-(.beta.-hydroxyethyl)amino phenol 57524-59-1  
61638-01-5, 3-Methoxy 4-aminophenol 66550-39-8 66566-48-1  
70643-19-5, 2,4-Diaminophenoxyethanol 75513-65-4 83763-47-7  
101562-88-3 **104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol  
104333-09-7, 2-Hydroxymethyl 4-aminophenol 104752-50-3 105607-68-9  
105607-70-3 105607-71-4 105607-72-5 105607-73-6 106206-75-1  
115423-86-4 139645-37-7  
RL: BIOL (Biological study)  
(oxidative **hair** dye contg. hydroxyindole derivs. and)  
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol  
RL: BIOL (Biological study)  
(oxidative **hair** dye contg. hydroxyindole derivs. and)  
RN 104333-08-6 HCAPLUS  
CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 22 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 1992:136002 HCAPLUS  
DN 116:136002  
TI Acidic oxidative hair dye composition containing 4-hydroxyindole  
derivatives  
IN Cotteret, Jean; Audousset, Marie Pascale  
PA Oreal S. A., Fr.  
SO Eur. Pat. Appl., 14 pp.  
CODEN: EPXXDW  
DT Patent  
LA French

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 465339	A1	19920108	EP 1991-401801	19910702
	EP 465339	B1	19931229		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	FR 2664305	A1	19920110	FR 1990-8570	19900705
	FR 2664305	B1	19921009		
	CA 2046034	AA	19920106	CA 1991-2046034	19910702
	AT 99161	E	19940115	AT 1991-401801	19910702
	ES 2062721	T3	19941216	ES 1991-401801	19910702
	AU 9180158	A1	19920109	AU 1991-80158	19910704
	AU 654281	B2	19941103		
	ZA 9105224	A	19920429	ZA 1991-5224	19910705
	JP 04230314	A2	19920819	JP 1991-165475	19910705
	JP 3098805	B2	20001016		
	US 5683474	A	19971104	US 1995-461845	19950605
PRAI	FR 1990-8570	A	19900705		
	EP 1991-401801	A	19910702		
	US 1991-725069	B1	19910705		
	US 1993-71349	B1	19930603		
OS	MARPAT 116:136002				
GI					



AB An oxidative hair dye compn. comprises 4-hydroxyindole or its derivs. (I; R1 = H, C1-4 alkyl; R2, R3 = C1-4 alkyl, carboxyl, alkoxy carbonyl; X = H, C1-4 alkyl, C1-18, halo, acetylamino), an oxidative hair dye precursor, and an oxidizing agent; the pH of the compn. is .ltoreq.7. A hair dye prepn. (pH 8.4; monothanolamine) contained 2,5-diaminonitrobenzene 0.3, 4-hydroxy-5-ethoxyindole 0.3, p-phenylenediamine 0.4, 1-methyl-2-hydroxy-4-aminobenzene 0.1, Na lauryl ether sulfate 4.2, ethoxylated nonylphenol 1.0, ethylene glycol monobutyl ether 9.5, Na metabisulfite 0.45, , sequestrants q.s., and water to 100,0 g. The prepn. was mixed with a soln. contg. 20 vol. H2O2; pH = 1.3, (equal wt./wt.) to obtain a mixt. having pH = 6.3, which dyed white hair to red-brown.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 90-15-3, 1-Naphthalenol 92-09-1 95-70-5, 2-Methyl p-phenylenediamine 99-98-9 106-50-3, p-Phenylenediamine, uses 108-46-3, 1,3-Benzenediol, uses 120-80-9, Pyrocatechol, uses 123-30-8, p-Aminophenol 148-71-0 150-19-6 533-31-3, 3,4-Methylenedioxyphenol 591-27-5 608-25-3 615-05-4, 2,4-Diaminoanisole 615-66-7 2172-32-9, 4-Amino N,N-(ethyl, .beta.-sulfoethyl)aniline 2359-52-6 2359-60-6 2442-80-0 2524-67-6, N-[(4'-Amino)phenyl] morpholine 2628-69-5 2800-11-5 2835-95-2, 2-Methyl 5-aminophenol 2835-96-3, 2-Methyl 4-amino phenol 2835-99-6, 3-Methyl 4-aminophenol 3096-69-3, 2,3-Dimethyl 4-aminophenol 3096-70-6, 3,5-Dimethyl 4-aminophenol 3096-71-7, 2,5-Dimethyl

4-aminophenol 3964-52-1, 2-Chloro 4-amino phenol 5306-96-7 5307-00-6  
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 2,6-Dimethyl 3-aminophenol 7218-02-2 7575-35-1 14090-00-7  
 14268-66-7, 3,4-Methylenedioxyaniline 15980-22-0, 2,6-Dimethyl  
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 6-Aminobenzomorpholine 26021-57-8, 6-Hydroxybenzomorpholine  
 29785-47-5, 2-Methoxymethyl 4-aminophenol 46409-67-0 52200-90-5,  
 2-Methoxy-4-aminophenol 55302-96-0, 2-Methyl 5-N-(.beta.-  
 hydroxyethyl)amino phenol 57524-59-1 61638-01-5, 3-Methoxy  
 4-aminophenol 66550-39-8 66566-48-1 70643-19-5, 2,4-  
 Diaminophenoxyethanol 75513-65-4 83763-47-7 101562-88-3  
**104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol 104333-09-7,  
 2-Hydroxymethyl 4-aminophenol 104752-50-3 105607-68-9 105607-69-0  
 105607-70-3 105607-71-4 105607-72-5 105607-73-6 106206-75-1  
 115423-86-4

RL: BIOL (Biological study)

(oxidative **hair** dye contg. hydroxyindole deriv. and)

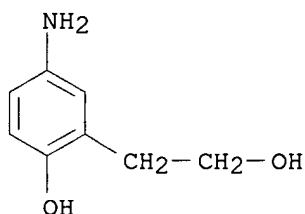
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol

RL: BIOL (Biological study)

(oxidative **hair** dye contg. hydroxyindole deriv. and)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 23 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1992:113317 HCAPLUS

DN 116:113317

TI Hair dye preparation containing 2,4-diamino-1,3-dimethoxybenzene as  
 coupling agent in acid medium

IN Cotteret, Jean; Audousset, Marie Pascale

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

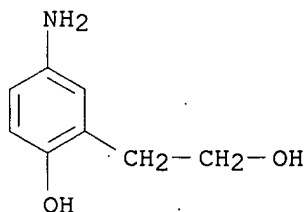
DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 459900	A1	19911204	EP 1991-401397	19910530
	EP 459900	B1	19940105		
	EP 459900	B2	20020828		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	FR 2662714	A1	19911206	FR 1990-6801	19900531
	FR 2662714	B1	19940408		
	AU 9178011	A1	19911205	AU 1991-78011	19910530
	AU 648795	B2	19940505		
	ZA 9104146	A	19920325	ZA 1991-4146	19910530

AT 99540 E 19940115 AT 1991-401397 19910530  
ES 2062712 T3 19941216 ES 1991-401397 19910530  
CA 2043673 AA 19911201 CA 1991-2043673 19910531  
JP 04235909 A2 19920825 JP 1991-129368 19910531  
JP 3206928 B2 20010910  
US 5279619 A 19940118 US 1993-110 19930104  
PRAI FR 1990-6801 A 19900531  
EP 1991-401397 A 19910530  
US 1991-707869 A1 19910531  
OS MARPAT 116:113317  
AB A hair dye (pH <7.0) compn. comprises 2,4-diamino-1,3-dimethoxybenzene (I) as coupling agent, a precursor of an oxidative dye, and an oxidizing agent. A dye compn. (pH 9.8; monoethanolamine) contg. I-2HCl 0.723, p-phenylenediamine 0.324, and excipients and water to 100 g, was mixed with an oxidizing compn. (pH 1.1; H3PO4) contg. H2O2, to obtain a mixt. with pH = 5.5. The compn. was applied to white hair to impart a dark blue color.  
IC ICM A61K007-13  
CC 62-3 (Essential Oils and Cosmetics)  
IT 92-09-1 95-70-5, 2-Methyl-p-phenylenediamine 99-98-9 106-50-3, p-Phenylenediamine, uses 123-30-8, p-Aminophenol 148-71-0 615-66-7 2172-32-9, 4-Amino N,N-(ethyl,.beta.-sulfoethyl)aniline 2359-52-6 2359-60-6 2442-80-0 2524-67-6, N-(4-Amino phenyl)morpholine 2628-69-5 2800-11-5 2835-96-3, 2-Methyl 4-amino phenol 2835-99-6, 3-Methyl 4-aminophenol 3096-69-3, 2,3-Dimethyl 4-aminophenol 3096-70-6, 3,5-Dimethyl 4-aminophenol 3096-71-7, 2,5-Dimethyl 4-aminophenol 3964-52-1, 2-Chloro 4-amino phenol 5307-00-6 5307-02-8 7575-35-1 14090-00-7 15980-22-0, 2,6-Dimethyl 4-aminophenol 17609-80-2, 3-Chloro 4-aminophenol 29785-47-5, 2-Methoxymethyl 4-aminophenol 46409-67-0 52200-90-5, 2-Methoxy 4-aminophenol 57524-59-1 61638-01-5, 3-Methoxy 4-aminophenol 66566-48-1 97902-52-8 **104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol 104333-09-7, 2-Hydroxymethyl 4-aminophenol 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1  
RL: BIOL (Biological study)  
(hair dye prepn. contg.)  
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)4-aminophenol  
RL: BIOL (Biological study)  
(hair dye prepn. contg.)  
RN 104333-08-6 HCAPLUS  
CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 24 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1992:28156 HCAPLUS

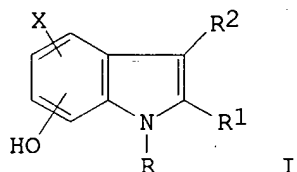
DN 116:28156

TI Keratinous fibers dyeing process with 6 or 7-monohydroxyindoles at acidic



pH  
 IN Cotteret, Jean; Audousset, Marie Pascale  
 PA Oreal S. A., Fr.  
 SO Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 446132	A1	19910911	EP 1991-400618	19910306
	EP 446132	B1	19940914		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	FR 2659228	A1	19910913	FR 1990-2975	19900308
	FR 2659228	B1	19941014		
	ZA 9101646	A	19911224	ZA 1991-1646	19910306
	ES 2060313	T3	19941116	ES 1991-400618	19910306
	AU 9172692	A1	19910912	AU 1991-72692	19910307
	AU 652741	B2	19940908		
	BR 9100931	A	19911105	BR 1991-931	19910307
	US 5207798	A	19930504	US 1991-666187	19910307
	CA 2037816	AA	19910909	CA 1991-2037816	19910308
	CA 2037816	C	20020716		
	JP 06092828	A2	19940405	JP 1991-125596	19910308
	JP 3254225	B2	20020204		
PRAI	FR 1990-2975	A	19900308		
OS	MARPAT 116:28156				
GI					



AB An oxidative hair dye compn. comprise .gtoreq.1 indole coupling agent (I; R = H, C1-4 alkyl; R1, R2 = H, C1-4 alkyl, carboxyl or alcoxycarbonyl; X = H, C1-4 alkyl, C18 alkoxy, halogen, C2-20 alkoxy, acetyl amino; OH is on position 6 or 7 on arom. ring) and their salts, an oxidative dye precursor, and an oxidizing agent. The pH of the compn. when applied to the hair is <7. An oxidative hair dye compn. comprised soln. contg. 6-hydroxy-5-acetoxyindole 0.573, paraphenylenediamine 0.324, monoethanolamine 9.7, water to 100% was mixed with equal vol. of a soln. contg. H2O2, and phosphoric acid to dye grey hairs. A blond color was obtained.

IC ICM A61K007-13

CC 63-6 (Pharmaceuticals)

IT 92-09-1 95-70-5 99-98-9 106-50-3, p-Phenylenediamine, biological studies 108-46-3, 1,3-Benzenediol, biological studies 123-30-8, p-Aminophenol 124-43-6 148-71-0 533-31-3, 3,4-Methylenedioxyphenol 591-27-5 608-25-3 615-05-4, 2,4-Diaminoanisole 615-66-7 621-34-1 1125-35-5, 7-Hydroxy 3-methylindole 1125-89-9, 6-Hydroxy 3-methylindole 2172-32-9, 4-Amino N,N-(ethyl, .beta.-sulfoethyl)aniline 2359-52-6 2359-60-6 2380-82-7, 6-Hydroxy 5-methoxy indole 2380-84-9,

7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2442-80-0 2524-67-6  
 2628-69-5 2638-99-5 2800-11-5 2835-95-2, 2-Methyl 5-aminophenol  
 2835-96-3, 2-Methyl 4-amino phenol 2835-99-6, 3-Methyl 4-aminophenol  
 3096-70-6, 3,5-Dimethyl 4-aminophenol 3096-71-7, 2,5-Dimethyl  
 4-aminophenol 3964-52-1, 2-Chloro 4-amino phenol 5306-96-7 5307-00-6  
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 2,6-Dimethyl 3-aminophenol 7218-02-2 7575-35-1 7598-91-6  
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 15980-22-0, 2,6-Dimethyl 4-aminophenol 17609-80-2, 3-Chloro  
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 26021-57-8, 6-Hydroxybenzomorpholine 29785-47-5 36729-23-4  
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 54584-23-5 55302-96-0 55483-70-0 57524-59-1 61638-01-5, 3-Methoxy  
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 123229-76-5 129001-41-8 130570-40-0 130570-60-4 130570-63-7  
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RL: BIOL (Biological study)

(acidic oxidative **hair** dye compn. contg.)

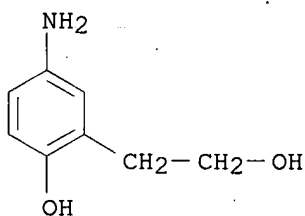
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: BIOL (Biological study)

(acidic oxidative **hair** dye compn. contg.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 25 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:519824 HCAPLUS

DN 115:119824

TI Oxidative hair dyes containing derivatives of 6- or 7-hydroxyindole as coupling agents

IN Junino, Alex; Vandenbossche, Jean Jacques; Richard, Herve; Cotteret, Jean

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

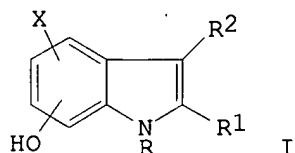
LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 428442	A1	19910522	EP 1990-403178	19901108
	EP 428442	B1	19940831		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE

FR 2654336	A1	19910517	FR 1989-14795	19891110
FR 2654336	B1	19940603		
ZA 9008928	A	19920226	ZA 1990-8928	19901107
BR 9005672	A	19910917	BR 1990-5672	19901108
ES 2058854	T3	19941101	ES 1990-403178	19901108
CA 2029640	AA	19910511	CA 1990-2029640	19901109
CA 2029640	C	20020115		
AU 9065977	A1	19910516	AU 1990-65977	19901109
AU 644612	B2	19931216		
JP 03206026	A2	19910909	JP 1990-305927	19901109
JP 3046619	B2	20000529		
CN 1051727	A	19910529	CN 1990-109042	19901110
US 6090160	A	20000718	US 1995-402941	19950313
PRAI FR 1989-14795	A	19891110		
US 1990-610951	B1	19901109		
US 1992-901142	B1	19920619		
OS MARPAT 115:119824				
GI				



AB The title compds. (I; R = H, C1-4 alkyl; R1, R2 = H, C1-4 alkyl, carboxyl, alkoxy, carbonyl; X = C1-4 alkyl, C1-10 alkoxy, halo, C1-20 acyloxy, acetylamino, trimethylsilyloxy, C1-4 dialkyl aminomethyl) are coupling agents in oxidative hair dye preps. The preps. also contain a dye precursor. 5-Amino-2,3-dimethyl-6-hydroxyindole was reacted with acetic anhydride to obtain 5-acetamido-2,3-dimethyl-6-hydroxyindole (II). A hair dye prepn. (total 100g) contg. II 0.545 g and H2O2 were applied to the hair for 30 min to give a nut-brown color.

IC ICM A61K007-13

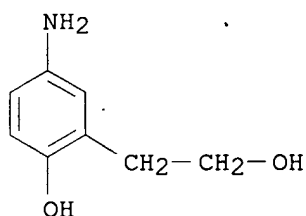
ICS C07D209-08

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

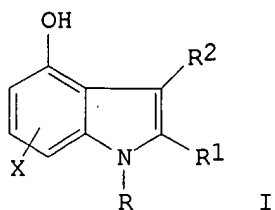
IT 92-09-1 95-70-5 99-98-9, N,N-Dimethyl-p-phenylenediamine 106-50-3, p-Phenylenediamine, biological studies 123-30-8, p-Aminophenol 148-71-0 615-66-7 2172-32-9 2359-52-6 2359-60-6 2442-80-0 2524-67-6 2628-69-5 2800-11-5 2835-96-3, 2-Methyl 4-aminophenol 2835-99-6, 3-Methyl 4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol 3096-70-6, 3,5-Dimethyl-4-aminophenol 3096-71-7, 2,5-Dimethyl-4-aminophenol 3964-52-1, 2-Chloro-4-aminophenol 5307-00-6, 2-Methyl 5-methoxy-p-phenylenediamine 5307-02-8, Methoxy-p-phenylenediamine 6393-01-7, 2,5-Dimethyl-p-phenylenediamine 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7575-35-1 14090-00-7 15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2, 3-Chloro-4-aminophenol 29785-47-5 46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol 57524-59-1 61638-01-5, 3-Methoxy-4-aminophenol 63969-43-7 66566-48-1 104333-08-6, 2-(.beta.-Hydroxyethyl)-4-aminophenol 104333-09-7, 2-Hydroxymethyl-4-aminophenol 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1 128729-30-6 128729-31-7 130582-53-5 135855-34-4 135855-35-5

RL: BIOL (Biological study)  
(oxidative **hair** dye prepn. contg. hydroxyindole derivs. and)  
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol  
RL: BIOL (Biological study)  
(oxidative **hair** dye prepn. contg. hydroxyindole derivs. and)  
RN 104333-08-6 HCAPLUS  
CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 26 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 1991:519823 HCAPLUS  
DN 115:119823  
TI Oxidative hair dye compositions containing dye precursors and derivatives  
of 4-hydroxyindole as coupling agent  
IN Junino, Alex; Vandenbossche, Jean Jacques; Richard, Herve; Cotteret, Jean  
PA Oreal S. A., Fr.  
SO Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 428441	A2	19910522	EP 1990-403177	19901108
	EP 428441	A3	19910529		
	EP 428441	B1	19940824		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	FR 2654335	A1	19910517	FR 1989-14794	19891110
	FR 2654335	B1	19950120		
	ZA 9008927	A	19910828	ZA 1990-8927	19901107
	BR 9005671	A	19910917	BR 1990-5671	19901108
	ES 2058853	T3	19941101	ES 1990-403177	19901108
	CA 2029660	AA	19910511	CA 1990-2029660	19901109
	CA 2029660	C	20020115		
	AU 9065892	A1	19910516	AU 1990-65892	19901109
	AU 646821	B2	19940310		
	JP 03206025	A2	19910909	JP 1990-305926	19901109
	JP 3070946	B2	20000731		
	CN 1051668	A	19910529	CN 1990-109041	19901110
	US 5609649	A	19970311	US 1994-262444	19940620
PRAI	FR 1989-14794	A	19891110		
	US 1990-611139	B1	19901109		
	US 1992-933937	B1	19920824		
OS	MARPAT 115:119823				
GI					



AB The title compds. (I; R = H, C1-4 alkyl; R1, R2 = H, C1-4 alkyl, carboxyl, alkoxy, carbonyl; X = C1-4 alkyl, C1-4 alkoxy, halo, acetylamino, C1-4 dialkyl aminomethyl) are used as coupling agents in oxidative hair dye preps. The preps. also contain an oxidn. dye precursor.

4-Benzoyloxy-2-carboxy-5-methylindole was refluxed in cyclohexane and EtOH over Pd/C to obtain 2-carboxy-4-hydroxy-5-methylindole (II). A hair dye prepn. contg. 0.478% II and H2O2 were applied to the hair for 30 min to give a purple grey color.

IC ICM A61K007-13

ICS C07D209-08; C07D209-42

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

IT 90-15-3, .alpha.-Naphthol 92-09-1 95-70-5 99-98-9 106-50-3,  
p-Phenylenediamine, biological studies 123-30-8, p-Aminophenol  
148-71-0 615-66-7 2172-32-9 2359-52-6 2359-60-6 2442-80-0  
2524-67-6 2628-69-5 2800-11-5 2835-96-3, 2-Methyl-4-aminophenol  
2835-99-6, 3-Methyl-4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol  
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3964-52-1, 2-Chloro-4-aminophenol 5307-00-6 5307-02-8,  
Methoxy-p-phenylenediamine 6393-01-7 7218-02-2 7575-35-1  
14090-00-7 15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2,  
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46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol 57524-59-1  
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130582-53-5 135855-34-4 135855-35-5

RL: BIOL (Biological study)

(oxidative hair dye prepn. contg. hydroxyindole derivs. and)

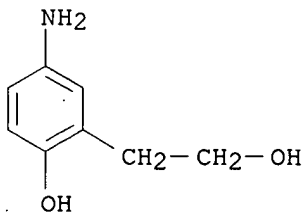
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: BIOL (Biological study)

(oxidative hair dye prepn. contg. hydroxyindole derivs. and)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 27 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:519820 HCAPLUS

DN 115:119820

TI Dye oxidative hair composition containing oxidation dye precursors and aminoindole derivatives as coupling agent

IN Junino, Alex; Lang, Gerard; Cotteret, Jean; Vandebossche, Jean Jacques

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 17 pp.

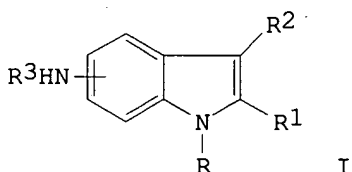
CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 424261	A1	19910424	EP 1990-402928	19901018
	EP 424261	B1	19960103		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	AT 132363	E	19960115	AT 1990-402928	19901018
	ES 2081358	T3	19960301	ES 1990-402928	19901018
	CA 2028236	AA	19910421	CA 1990-2028236	19901019
	AU 9064791	A1	19910426	AU 1990-64791	19901019
	AU 642916	B2	19931104		
	JP 03193725	A2	19910823	JP 1990-281750	19901019
	JP 3165434	B2	20010514		
	ZA 9008397	A	19910828	ZA 1990-8397	19901019
	BR 9005288	A	19910917	BR 1990-5288	19901019
	CN 1051670	A	19910529	CN 1990-109509	19901020
	US 5364414	A	19941115	US 1992-916706	19920722
PRAI	LU 1989-87611	A	19891020		
	US 1990-599808	B1	19901022		
OS	MARPAT 115:119820				
GI					

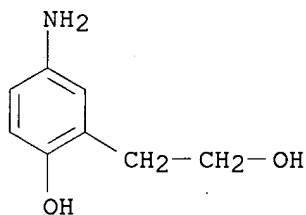


AB Aminoindoles (I; R, R2 = H, C1-4 alkyl; R1 = H, C1-4 alkyl, carboxyl, alkoxy carbonyl; R3 = H, C1-4 alkyl, C1-4 hydroxyalkyl, C2-4 polyhydroxyalkyl) are used as coupling agents in oxidative hair dye preps. The preps. also have an oxidn. dye precursor. 6-Aminoindole in EtOH was reacted with glycidol to obtain 6-N-(.beta.,.gamma.-dihydroxypropyl)aminoindole (II). A hair dye prep. contained II 0.52, p-phenylenediamine 0.270, polyglycerol oleyl alc. 9.0, Ethomeen 0 12 (ethoxylated oleylamine) 4.5, Comperlan KD 9.0, propylene glycol 4.0, 2-butoxyethanol 8.0, EtOH 6.0, Masquol DTPA 2.0, hydroquinone 0.15, NaHSO3 1.3, NH4OH 10.0, and water to 100.0 g. The above prep. and H2O2 were applied to the hair for 30 min to give a reddish-brown color.

IC ICM A61K007-13  
ICS C07D209-40; C07D209-42

CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 27

IT 90-15-3, 1-Naphthalenol 92-09-1 95-55-6, 1-Amino-2-hydroxybenzene  
 95-70-5 99-98-9, N,N-Dimethyl-p-phenylenediamine 106-50-3,  
 p-Phenylenediamine, biological studies 123-30-8, p-Aminophenol  
 148-71-0 150-19-6 591-27-5 615-05-4 2172-32-9 2359-52-6  
 2359-60-6 2442-80-0 2524-67-6 2628-69-5 2800-11-5 2835-95-2  
 2835-96-3, 2-Methyl-4-aminophenol 2835-98-5 2835-99-6,  
 3-Methyl-4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol  
 3096-70-6, 3,5-Dimethyl-4-aminophenol 3096-71-7 3964-52-1,  
 2-Chloro-4-aminophenol 5307-00-6, 2-Methyl-5-methoxy-p-phenylenediamine  
 5307-02-8, Methoxy-p-phenylenediamine 6100-60-3 6393-01-7,  
 2,5-Dimethyl-p-phenylenediamine 6994-64-5 7218-02-2,  
 2,6-Dimethyl-p-phenylenediamine 7575-35-1 14090-00-7 15980-22-0,  
 2,6-Dimethyl-4-aminophenol 17609-80-2, 3-Chloro-4-aminophenol  
 17672-22-9 26011-57-4 26021-57-8 29785-47-5 46409-67-0  
 52200-90-5, 2-Methoxy-4-aminophenol 55302-96-0 61638-01-5,  
 3-Methoxy-4-aminophenol 63969-43-7 66550-39-8 66566-48-1  
 70643-19-5 75513-65-4 83763-47-7 101562-88-3 **104333-08-6**,  
 2-(.beta.-Hydroxyethyl)-4-aminophenol 104333-09-7, 2-Hydroxymethyl-4-  
 aminophenol 104752-50-3 105607-68-9 105607-70-3 105607-71-4  
 105607-72-5 105607-73-6 106206-75-1 128729-30-6 128729-31-7  
 130582-53-5 135855-34-4 135855-35-5 135855-76-4  
 RL: BIOL (Biological study)  
 (oxidative **hair** dye prepn. contg. aminoindole derivs. and)  
 IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol  
 RL: BIOL (Biological study)  
 (oxidative **hair** dye prepn. contg. aminoindole derivs. and)  
 RN 104333-08-6 HCAPLUS  
 CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)

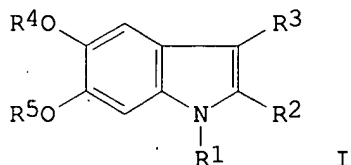


L60 ANSWER 28 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1991:456951 HCAPLUS  
 DN 115:56951  
 TI Oxidative hair dye preparations  
 IN Vayssie, Charles; Bauer, Daniel; Richard, Françoise; Junino, Alex  
 PA Oreal S. A., Fr.  
 SO Fr. Demande, 23 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2649887	A1	19910125	FR 1989-9836	19890721
	FR 2649887	B1	19940708		
	EP 416962	A1	19910313	EP 1990-402062	19900718
	EP 416962	B1	19930922		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE

AT 94751	E	19931015	AT 1990-402062	19900718
JP 03058917	A2	19910314	JP 1990-192853	19900720
JP 2963737	B2	19991018		
US 5073174	A	19911217	US 1990-554873	19900720
CA 2021731	AA	19910122	CA 1990-2021731	19900723
PRAI FR 1989-9836		19890721		
EP 1990-402062		19900718		
OS MARPAT 115:56951				
GI				



AB During a 1st time, a compn. is applied which lacks any oxidizing agent and which contains .gtoreq.1 indole deriv. I [R1 = H, lower alkyl, SiR6R7R8 (R6 - R8 = lower alkyl); R2, R3 = H, lower alkyl, carboxyl, CO2SiR6R7R8 (R6-R8 as above), etc.; R4, R5 = H, C1-20 alkyl, formyl, C2-20 acyl, etc.] or a salt thereof; during a 2nd time a compn. is applied contg. an oxidn. dye precursor [a p-phenylenediamine (Markush given), a p-aminophenol, a pyridine or pyrimidine deriv., etc] and/or .gtoreq.1 rapid oxidn. dye (e.g. hydroxy/aminobenzene derivs.) eventually mixed, at the moment of use, with a soln. of H2O2. Thus, a compn. including 5,6-dihydroxyindole was applied for 10 min at room temp. to hair which was natural gray to 90% white. Following shampooing, rinsing, and drying, the hair was a deep blond. To a compn. contg. p-aminophenol was added, at the moment of use, an equal vol. of 6% H2O2, and the resulting compn. was applied for 3 min at room temp. to the hair pretreated with the 5,6-dihydroxyindole compn. (above). Following rinsing and drying, the hair was a chestnut brown/mahogany color.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 87-66-1, 1,2,3-Benzenetriol 92-09-1 95-70-5 95-86-3,  
 2,4-Diaminophenol 99-98-9, N,N-Dimethyl-p-phenylenediamine 106-50-3,  
 p-Phenylenediamine, biological studies 106-50-3D, p-Phenylenediamine,  
 derivs. 110-86-1D, Pyridine, derivs. 123-30-8, p-Aminophenol  
 123-30-8D, derivs. 148-71-0 150-75-4, N-Methyl-p-aminophenol  
 289-95-2D, Pyrimidine, derivs. 452-86-8, 4-Methyl-1,2-dihydroxybenzene  
 474-07-7 517-28-2, Hematoxyline 533-73-3, 1,2,4-Benzenetriol  
 533-73-3D, 1,2,4-Benzenetriol, alkyl derivs. 615-66-7 934-00-9,  
 3-Methoxy-1,2-dihydroxybenzene 1004-74-6, Tetraaminopyrimidine  
 2172-32-9 2359-52-6 2380-82-7, 5-Methoxy-6-hydroxyindole 2442-80-0  
 2524-67-6, N-[(4'-Amino)phenyl]morpholine 2628-69-5 2800-11-5  
 2835-96-3, 2-Methyl-4-aminophenol 2835-99-6, 3-Methyl-4-aminophenol  
 3096-69-3, 2,3-Dimethyl-4-aminophenol 3096-70-6, 3,5-Dimethyl-4-  
 aminophenol 3096-71-7, 2,5-Dimethyl-4-aminophenol 3131-52-0,  
 5,6-Dihydroxyindole 3964-52-1, 2-Chloro-4-aminophenol 4318-76-7,  
 2,5-Diaminopyridine 4790-08-3, 2-Carboxy-5,6-dihydroxyindole  
 4813-45-0, 3-Methyl-5,6-dihydroxyindole 4821-01-6, 2-Methyl-5,6-  
 dihydroxyindole 5107-75-5, 2,3-Dimethyl-5,6-dihydroxyindole 5306-96-7  
 5307-00-6, 2-Methyl-5-methoxy-p-phenylenediamine 5307-02-8 6393-01-7,



2,5-Dimethyl-p-phenylenediamine 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7575-35-1 7722-84-1, Hydrogen peroxide, biological studies 13066-95-0 14090-00-7 15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2, 3-Chloro-4-aminophenol 20734-68-3, 2-Amino-1,4-dihydroxybenzene 20734-76-3, 2-Amino-4-methoxyphenol 33630-94-3 38213-79-5, 2,5-Diamino-4-methoxy-1-hydroxybenzene 46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol 57524-59-1 61638-01-5, 3-Methoxy-4-aminophenol 66566-48-1 93918-03-7 97902-52-8 104333-08-6, 2-(.beta.-Hydroxyethyl)-4-aminophenol 104333-09-7, 2-Hydroxymethyl-4-aminophenol 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1 113370-02-8 113370-36-8 114109-54-5 122481-71-4

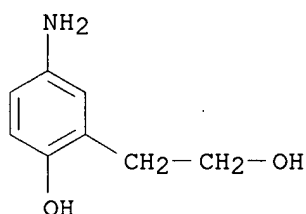
RL: BIOL (Biological study)  
(oxidative **hair** dye contg.)

IT 104333-08-6, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: BIOL (Biological study)  
(oxidative **hair** dye contg.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 29 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1990:617779 HCAPLUS

DN 113:217779

TI Hair dye preparations containing an oxidative dye precursor and an indole coupler

IN Junino, Alex; Lang, Gerard; Vandenbossche, Jean Jacques

PA Oreal S. A., Fr.

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

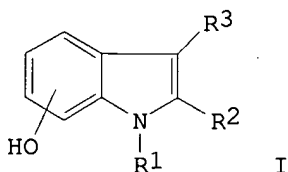
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3930473	A1	19900315	DE 1989-3930473	19890912
	CH 679551	A	19920313	CH 1989-3213	19890905
	ZA 8906845	A	19910529	ZA 1989-6845	19890907
	AT 400672	B	19960226	AT 1989-2100	19890907
	AU 8941207	A1	19900315	AU 1989-41207	19890911
	AU 626579	B2	19920806		
	FR 2636236	A1	19900316	FR 1989-11815	19890911
	FR 2636236	B1	19931022		
	BR 8904562	A	19900501	BR 1989-4562	19890911
	GB 2224518	A1	19900509	GB 1989-20524	19890911
	GB 2224518	B2	19920722		
	ES 2016162	A6	19901016	ES 1989-3090	19890911

BE 1002235	A4	19901030	BE 1989-961	19890911
NL 8902281	A	19900402	NL 1989-2281	19890912
NL 194230	B	20010601		
NL 194230	C	20011002		
JP 02121912	A2	19900509	JP 1989-236768	19890912
JP 2744080	B2	19980428		
US 5279620	A	19940118	US 1992-871116	19920420
PRAI LU 1988-87337	A	19880912		
US 1989-404569	B1	19890908		
OS MARPAT 113:217779				
GI				



- AB Dye preps. for keratinic fibers contain a para-type oxidative dye precursor and an indole coupler I (R1 = H, C1-4 alkyl; R2, R3 = H, C1-4 alkyl, CO2H, C1-4 alkoxy-carbonyl; OH in position 6 or 7). The hair color produced is resistant to light, washing, weathering, and perspiration. Thus, a dye compn. was prepd. contg. I (R1 = Me, R2 = R3 = H, 6-OH) (II) 0.73, bis(.beta.-hydroxyethyl)-4-aminoaniline-2HCl 1.34, Cellosize WPO3 (hydroxyethylcellulose) 2.0, ammonium lauryl sulfate 5.0, 2-butoxyethanol 15.0, alc. (96.degree.) 5.0, penta-Na DTPA 2.0, and water to 100.0 g (pH 10.5). H2O2 was added at the time of use. This compn. conferred a violet-gray color to white hair. II was prepd. by methylation of 6-benzoyloxyindole with Me2SO4 followed by catalytic debenzoylation with Pd/C.
- IC ICM A61K007-13  
ICS D06P003-08
- CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 27
- IT 95-70-5 99-98-9 106-50-3, 1,4-Benzenediamine, biological studies  
123-30-8 150-19-6 591-27-5 615-05-4, 2,4-Diaminoanisole 615-66-7  
1125-35-5 1125-89-9, 6-Hydroxy-3-methyl-indole 2172-32-9,  
4-Amino-N,N-(ethyl-.beta.-sulfoethyl)aniline 2359-51-5 2359-52-6  
2359-60-6 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole  
2442-80-0 2524-67-6, N-[(4'-Amino)phenyl]morpholine 2628-69-5  
2800-11-5 2835-95-2, 2-Methyl-5-aminophenol 2835-96-3,  
2-Methyl-4-aminophenol 2835-99-6, 3-Methyl-4-aminophenol 3096-69-3,  
2,3-Dimethyl-4-aminophenol 3096-70-6, 3,5-Dimethyl-4-aminophenol  
3096-71-7, 2,5-Dimethyl-4-aminophenol 3964-52-1 5307-00-6 5307-02-8  
6100-60-3, 2,4-Dihydroxy-anisole 6393-01-7 6994-64-5,  
2,6-Dimethyl-3-aminophenol 7218-02-2, 2,6-Dimethyl-p-phenylenediamine  
7575-35-1 14090-00-7 15050-03-0 15980-22-0, 2,6-Dimethyl-4-aminophenol  
17609-80-2 24370-70-5 24370-78-3 26011-57-4,  
6-Amino-benzomorpholine 26021-57-8, 6-Hydroxy-benzomorpholine  
36729-23-4 40047-23-2 46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol  
54584-22-4 54584-23-5 55302-96-0 57524-59-1 61638-01-5,  
3-Methoxy-4-aminophenol 66550-39-8 66566-48-1 70643-19-5,  
2,4-Diamino-phenoxyethanol 75513-65-4 83763-47-7 101562-88-3  
104333-08-6, 2-(.beta.-Hydroxyethyl)-4-aminophenol 104333-09-7,

2-Hydroxymethyl-4-aminophenol 104752-50-3 105607-68-9 105607-69-0  
 105607-71-4 105607-72-5 105607-73-6 106206-75-1 112332-93-1  
 112332-97-5 130570-60-4 130570-63-7

RL: BIOL (Biological study)

(hair dyes contg.)

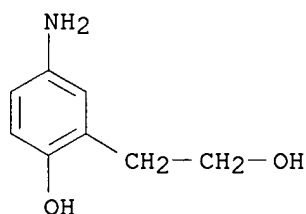
IT 104333-08-6, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: BIOL (Biological study)

(hair dyes contg.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 30 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1990:551993 HCAPLUS

DN 113:151993

TI Trialkoxy-substituted m-phenylene diamines, process for their preparation, and their use as coupling agents in the oxidation dyeing of keratinic fibres, especially human hair

IN Junino, Alex; Vandebossche, Jean Jacques; Borowiak, Herve; Lang, Gerard

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 22 pp.

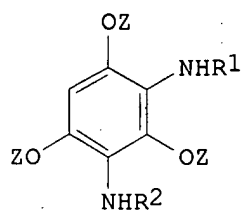
CODEN: EPXXDW

DT Patent

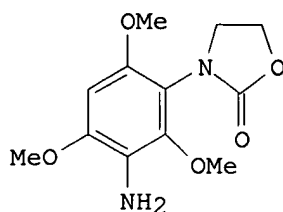
LA French

FAN.CNT 1

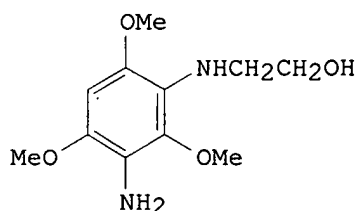
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 370880	A1	19900530	EP 1989-403182	19891120
	EP 370880	B1	19921111		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	AT 82252	E	19921115	AT 1989-403182	19891120
	ES 2055804	T3	19940901	ES 1989-403182	19891120
	CA 2003594	AA	19900522	CA 1989-2003594	19891122
	AU 8945372	A1	19900531	AU 1989-45372	19891122
	AU 622843	B2	19920416		
	JP 02209853	A2	19900821	JP 1989-304563	19891122
	US 5002585	A	19910326	US 1989-439673	19891122
PRAI	LU 1988-87396		19881122		
	EP 1989-403182		19891120		
OS	MARPAT 113:151993				
GI					



I



II



III

AB The title compds. I (R<sub>1</sub>, R<sub>2</sub> = H, C1-4 alkyl, C2-3 mono- or polyhydroxyalkyl; Z = C1-4 alkyl; when R<sub>1</sub> = R<sub>2</sub> = H, Z .noteq. Me) were prepd. A mixt. of aniline deriv. II (prepd. in several steps from 2,4-dinitro-1,3,5-trimethoxybenzene), aq. NaOH, and EtOH was refluxed for 7.5 h to give title compd. III. A hair dyeing compn. contg. III, p-aminophenol, propylene glycol, hydroquinone, etc., was mixed with aq. H<sub>2</sub>O<sub>2</sub> to give a raspberry color.

IC ICM C07C217-84

ICS A61K007-13

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 62

IT 90-15-3, .alpha.-Naphthol 92-09-1 95-70-5 99-98-9,  
N,N-Dimethyl-p-phenylenediamine 106-50-3, 1,4-Benzenediamine,  
preparation 123-30-8 148-71-0 615-66-7 1004-74-6,  
Pyrimidinetetramine 2172-32-9 2359-52-6 2359-60-6 2442-80-0  
2524-67-6 2628-69-5 2800-11-5 2835-96-3, 2-Methyl-4-aminophenol  
2835-99-6, 3-Methyl-4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol  
3096-70-6, 3,5-Dimethyl-4-aminophenol 3096-71-7, 2,5-Dimethyl-4-  
aminophenol 3964-52-1, 2-Chloro-4-aminophenol 4318-76-7,  
2,5-Pyridinediamine 5306-96-7 5307-00-6 5307-02-8,  
Methoxy-p-phenylenediamine 6393-01-7, 2,5-Dimethyl-p-phenylenediamine  
7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7575-35-1 14090-00-7  
15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2, 3-Chloro-4-  
aminophenol 33630-94-3 46409-67-0 52200-90-5, 2-Methoxy-4-  
aminophenol 57524-59-1 61638-01-5, 3-Methoxy-4-aminophenol  
66566-48-1 97902-52-8 **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-  
aminophenol 104333-09-7, 2-Hydroxymethyl-4-aminophenol 105607-68-9  
105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(hair dyeing compn. contg.)

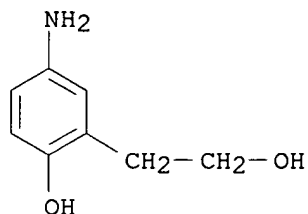
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: RCT (Reactant); RACT (Reactant or reagent)

(hair dyeing compn. contg.)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 31 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1989:483853 HCAPLUS

DN 111:83853

TI Preparation of m-phenylenediamines as coupling agents for oxidative hair dyes

IN Junino, Alex; Vandenbossche, Jean Jacques; Borowiak, Herve; Lang, Gerard

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 49 pp.

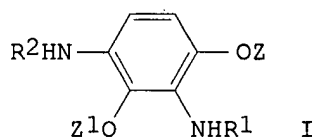
CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 294669	A1	19881214	EP 1988-108494	19880527
	EP 294669	B1	19910717		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	JP 01052710	A2	19890228	JP 1988-130028	19880527
	JP 2529719	B2	19960904		
	AT 65242	E	19910815	AT 1988-108494	19880527
	CA 1315297	A1	19930330	CA 1988-568077	19880530
	US 4960432	A	19901002	US 1988-200170	19880531
	US 5015772	A	19910514	US 1990-540264	19900619
PRAI	LU 1987-86905		19870529		
	EP 1988-108494		19880527		
OS	MARPAT 111:83853				
GI					



AB The m-phenylenediamines I (R1, R2 = H, alkyl, hydroxyalkyl; Z, Z1 = alkyl, hydroxyalkyl) are coupling agents for p-phenylenediamine oxidative hair dyes. A refluxing mixt. of 37.2 g NH4OAc, 33 g Pd/C, 38.5 g 5-[(.beta.-hydroxyethyl)amino]-3-amino-2,4-dimethoxychlorobenzene-2HCl (prepn. given), 240 mL EtOH and 24 mL water, was treated with 36.4 mL Et3N and 15.5 g HCO2H, to give 4-[(.beta.-hydroxyethyl)amino]-2-amino-1,3-dimethoxybenzene-2HCl (II). An oxidative hair dye comprised II 0.71, p-phenylenediamine 0.25, Cemulsol NP-4 12, Cemulsol NP-9 15, polyglycerolated oleic acid (4 mol glycerol) 1.5, polyglycerolated oleic

acid (2 mol glycerol) 1.5, propylene glycol 6, TriRon B 0.12, NH<sub>3</sub> (22.degree. Be) 11, thioglycolic acid 0.6, and water to 100 g. The dye was mixed with H<sub>2</sub>O<sub>2</sub> and applied to hair, to give a grayish red color.

IC ICM C07C093-14

ICS A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

IT 92-09-1 95-70-5 99-98-9, N,N-Dimethyl-p-phenylenediamine 106-50-3, 1,4-Benzenediamine, biological studies 123-30-8, p-Aminophenol 148-71-0 615-66-7 2172-32-9 2359-52-6 2359-60-6 2442-80-0 2524-67-6 2628-69-5 2800-11-5 2835-96-3, 2-Methyl-4-aminophenol 2835-99-6, 3-Methyl-4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol 3096-70-6, 3,5-Dimethyl-4-aminophenol 3096-71-7, 2,5-Dimethyl-4-aminophenol 3964-52-1, 2-Chloro-4-aminophenol 5306-96-7 5307-00-6, 2-Methyl-5-methoxy-p-phenylenediamine 5307-02-8, Methoxy-p-phenylenediamine 6393-01-7, 2,5-Dimethyl-p-phenylenediamine 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7575-35-1 14090-00-7 15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2 46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol 57524-59-1 61638-01-5, 3-Methoxy-4-aminophenol 66566-48-1 97902-52-8 **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol 104333-09-7, 2-(Hydroxymethyl)-4-aminophenol 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1

RL: BIOL (Biological study)

(oxidative **hair** dyes contg., m-phenylenediamine coupling agents for)

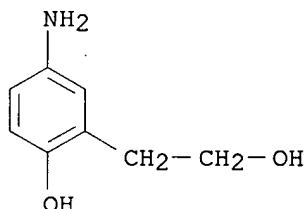
IT **104333-08-6**, 2-(.beta.-Hydroxyethyl)-4-aminophenol

RL: BIOL (Biological study)

(oxidative **hair** dyes contg., m-phenylenediamine coupling agents for)

RN 104333-08-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 32 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1989:483852 HCAPLUS

DN 111:83852

TI Preparation of 2,4-diamino-1,3-dimethoxybenzene as coupling agent for oxidative hair dyes

IN Junino, Alex; Vandenbossche, Jean Jaques; Borowiak, Herve; Lang, Gerard

PA Oreal S. A., Fr.

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 3818139	A1	19881215	DE 1988-3818139	19880527
	DE 3818139	C2	19971120		
	NL 8801317	A	19881216	NL 1988-1317	19880520
	AT 8801356	A	19961115	AT 1988-1356	19880524
	AT 402606	B	19970725		
	SE 8801987	A	19881130	SE 1988-1987	19880527
	SE 503239	C2	19960422		
	AU 8816731	A1	19881201	AU 1988-16731	19880527
	AU 616660	B2	19911107		
	FR 2615732	A1	19881202	FR 1988-7065	19880527
	FR 2615732	B1	19940819		
	GB 2206359	A1	19890105	GB 1988-12694	19880527
	GB 2206359	B2	19911002		
	JP 01063508	A2	19890309	JP 1988-130027	19880527
	ES 2009923	A6	19891016	ES 1988-1673	19880527
	CH 674932	A	19900815	CH 1988-2017	19880527
	BE 1002823	A4	19910625	BE 1988-592	19880527
	JP 09118656	A2	19970506	JP 1996-262014	19880527
	CA 1306952	A1	19920901	CA 1988-568075	19880530
	US 4865619	A	19890912	US 1988-200163	19880531
PRAI	LU 1987-86903		19870529		
	JP 1988-130027		19880527		

OS MARPAT 111:83852

AB 2,4-Diamino-1,3-dimethoxybenzene (I) and I salts are prepd. as coupling agents for hair dyes. I are used with precursors of para-type oxidative dyes. A mixt. of 15.4 g NH<sub>4</sub>AcO 5.2 g Pd/charcoal, 100 mL EtOH, 15 mL H<sub>2</sub>O and 26.2 g 2,4-dimethoxy-3,5-dinitrochlorobenzene was hydrogenated with 20 kg H at 80.degree. to give I which was converted into I-2HCl. A hair dye comprised I-2HCl 0.602, 4-amino-N-.beta.-methoxyethyl-aniline-2HCl 0.598, ethoxylated nonylphenol (4 mol ethylene oxide) 12, ethoxylated nonylphenol (9 mol ethylene oxide) 15, glycerinated olein alc. (2 mol glycerol) 1.5, glycerinated olein alc. (4 mol glycerol) 1.5, propylene glycol 6, EDTA 0.12, NH<sub>3</sub> (22.degree. Be) 11, thioglycolic acid 0.6, and water to 100 g. Prior to use, 100 g 6% H<sub>2</sub>O<sub>2</sub> was added to the above compn.

IC ICM C07C093-14

ICS A61K007-13; D06P003-08; D06P001-32

ICA C07D295-04; C07D295-12

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

IT 92-09-1 95-70-5 99-98-9, N,N-Dimethyl-p-phenylenediamine 106-50-3, 1,4-Benzenediamine, biological studies 123-30-8, p-Aminophenol 148-71-0 615-66-7 2172-32-9 2359-52-6 2359-60-6 2442-80-0 2524-67-6 2628-69-5 2800-11-5 2835-96-3, 2-Methyl-4-aminophenol 2835-99-6, 3-Methyl-4-aminophenol 3096-69-3, 2,3-Dimethyl-4-aminophenol 3096-70-6, 3,5-Dimethyl-4-aminophenol 3096-71-7, 2,5-Dimethyl-4-aminophenol 3964-52-1, 2-Chloro-4-aminophenol 5306-96-7 5307-00-6 5307-02-8, Methoxy-p-phenylenediamine 6393-01-7, 2,5-Dimethyl-p-phenylenediamine 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7575-35-1 14090-00-7 15980-22-0, 2,6-Dimethyl-4-aminophenol 17609-80-2, 3-Chloro-4-aminophenol 46409-67-0 52200-90-5, 2-Methoxy-4-aminophenol 57524-59-1 61638-01-5 66566-48-1 97902-52-8 **104333-08-6** 104333-09-7 105607-68-9 105607-69-0 105607-70-3 105607-71-4 105607-72-5 106206-75-1

RL: BIOL (Biological study)

(hair dye contg., oxidative, diaminodimethylbenzyl coupler for)

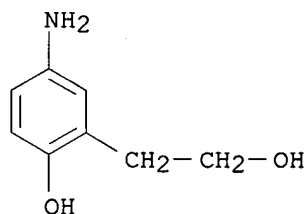
IT **104333-08-6**

RL: BIOL (Biological study)

(hair dye contg., oxidative, diaminodimethylbenzyl coupler  
for)

RN 104333-08-6 HCAPLUS

CN Benzenethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



L60 ANSWER 33 OF 33 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1986:539412 HCAPLUS

DN 105:139412

TI Hair dyes containing 4-amino-2-hydroxyalkylphenols as developers

IN Clausen, Thomas; Konrad, Eugen

PA Wella A.-G., Fed. Rep. Ger.

SO Ger. Offen., 17 pp.

CODEN: GWXXBX

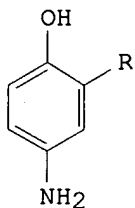
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3441148	A1	19860515	DE 1984-3441148	19841110
	WO 8602829	A1	19860522	WO 1985-EP588	19851104
	W: AU, BR, DK, FI, JP, KR, NO, US				
	EP 182187	A1	19860528	EP 1985-114018	19851104
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AU 8550615	A1	19860603	AU 1985-50615	19851104
	BR 8507023	A	19870106	BR 1985-7023	19851104
	JP 62500870	T2	19870409	JP 1985-504856	19851104
	ZA 8508549	A	19860625	ZA 1985-8549	19851106
	ES 548657	A1	19861216	ES 1985-548657	19851107
	DK 8603249	A	19860708	DK 1986-3249	19860708
	NO 8602759	A	19860708	NO 1986-2759	19860708
	FI 8602895	A	19860709	FI 1986-2895	19860709
PRAI	DE 1984-3441148		19841110		
	WO 1985-EP588		19851104		

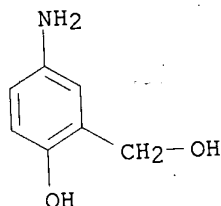
GI



I



- AB Oxidative hair dyes comprise I (R = C1-4 monohydroxyalkyl) and their salts as developers in combination with couplers. I exhibit good color conditions in the red color region and good physiol. characteristics. Thus, I (R = 2-hydroxyethyl) (II) was prepd. from 2-aminophenylethyl alc. by acetylation, nitration, deacetylation, diazotization, and redn. A hair dye gel was formulated contg. II 0.35, 5-amino-2-methylphenol 0.27, ascorbic acid 0.30, oleic acid 15.00, isopropanol 7.00, ammonia (22%) 10.00, and water to 100.00 g. The prepn. was mixed with H2O2 (1:1) shortly before use. The mixt. was applied on the hair for 30 min at 40.degree. and colored the hair orange.
- IC ICM C07C091-44  
ICS A61K007-13; D06P003-08; D06P003-14
- CC 62-3 (Essential Oils and Cosmetics)
- IT 104333-09-7  
RL: BIOL (Biological study)  
(hair dye contg., as developer)
- IT 104333-08-6P  
RL: PREP (Preparation)  
(prepn. of, as hair dye developer)
- IT 104333-09-7  
RL: BIOL (Biological study)  
(hair dye contg., as developer)
- RN 104333-09-7 HCAPLUS  
CN Benzenemethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)



- IT 104333-08-6P  
RL: PREP (Preparation)  
(prepn. of, as hair dye developer)
- RN 104333-08-6 HCAPLUS  
CN Benzeneethanol, 5-amino-2-hydroxy- (9CI) (CA INDEX NAME)

